

# ASCE

1966

## COMBINED INDEX







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*Journals (Proceedings)  
Civil Engineering  
and  
Transactions*

*January, 1967/\$2.00*

# FOIPA EXEMPTION

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## INDEX TO 1966 ASCE PERIODICAL PUBLICATIONS

### FOREWORD

The 1966 Index, which provides a guide to information published by ASCE during 1966, combines material appearing in the Journals (Proceedings Vol. 92), CIVIL ENGINEERING (Vol. 36), and Transactions (Vol. 131).

The user will find all articles and papers dealing with specific subject areas listed under one or more appropriate subject headings suggested by the content and application of the paper. The Engineers Joint Council "Thesaurus of Engineering Terms" has been used as the primary source of index terms. Additional terms not presently in the Thesaurus have been used when necessary.

The Index can be used in conjunction with the information-retrieval cards printed in the front of each journal. The underlined key words on the information-retrieval abstracts are the words used as index terms in the 1966 Index.

The name index contains entries indexed under the names of authors, co-authors, discussers, chairmen of committees preparing reports, and deceased members, whose memoirs appeared in Transactions.

In the name index, the entry for a Proceedings paper (under the first named if more than one author) is supplemented by information concerning the discussion, closure, and Transactions Digest, if applicable. To find what discussion, if any, there has been for Proceedings papers located in the subject index, the reader looks under the entry for the first-named author in the name index. When discussion of a paper from a prior year is published, the original entry is repeated. Discussion over a period of time can be traced until the closure to the paper is located.

Discussions of CIVIL ENGINEERING items are noted in the subject index as well as in the name index under the discussor's name.

When the paper appears in Transactions, the complete entry including original paper, discussion, closure, and errata, if applicable, and Transactions citation appears in the name index. The subject entry contains a citation to the original paper and the Transactions reference.

Typical abbreviations used herein are:

Dsc for discussion,  
Clo for closing discussion,  
Corr for corrections,  
Chmn for Chairman of a committee submitting a report, and  
TR for Transactions.

Division Abbreviations: Aero-Space Transport (AT), Construction (CO), Engineering Mechanics (EM), Highway (HW), Hydraulics (HY), Irrigation and Drainage (IR), Pipeline (PL), Power (PO), Sanitary Engineering (SA), Soil Mechanics and Foundations (SM), Structural (ST), Surveying and Mapping (SU), Urban Planning and Development (UP), and Waterways and Harbors (WW). Papers sponsored by the Department of Conditions of Practice are identified by the symbols (PP).

The original publication can be found from the index entry as follows: Papers appearing in the Journals (Proceedings) are listed as:

HY1: Jan 66:59:4875

which would indicate a paper published in the Journal of the Hydraulics Division, January, 1966, on page 59, as Proceedings Paper 4875.

The Transactions entry

TR:131:475

indicates that the Digest appears in Transactions, Volume 131, on page 475.

Articles and news items published in CIVIL ENGINEERING are represented as:

CE:Jan 66:100

which states that the article appeared in CIVIL ENGINEERING in the January, 1966 issue on page 100.

In addition to articles, the following Departments of CIVIL ENGINEERING are indexed: ASCE News, Engineers Notebook, News Briefs, The Readers Write, and The Younger Viewpoint.

# 1966 COMBINED SUBJECT INDEX

## AASHO ROAD TEST

Tests of Partially Prestressed Concrete Girders, Donald D. Magura and Elvind Hognestad, ST1:Feb 66:327:4685

## ABSTRACTS

Key Words and Abstracts for American Papers in the Proceedings of the 6th International Conference on Soil Mechanics and Foundations Engineering: Report by U. S. Natl. Committee for the Internatl. Soc. of Soil Mechanics and Foundations Engrg., ASCE, Bramlette McClelland, Chmn, SM1:Jan 66:137:4635

## ACOUSTIC LOGGING

Rock Properties Interpreted from Sonic Velocity Logs, Roderick D. Carroll, SM2:Mar 66:43:4715

## ACTIVATED SLUDGE

Nominal Diameter of Floc Related to Oxygen Transfer, James A. Mueller, Karl G. Voelkel, and William C. Boyle, SA2:Apr 66:9:4756

## ACTIVATED SLUDGE PROCESSES

Homogeneous Activated Sludge--Wastewater Treatment at Lower Cost, H. S. Smith and Wayne L. Paulson, CE:May 66:56  
Wickenburg Sewage Treatment Plant--An Application of a New Process, J. E. Schaefer, CE:Nov 66:35

## ADHESIVES

Urethane Foam for Pressure-Relief Joints at Bridges, E. J. O'Connor, CE:Oct 66:37

## ADMIXTURES (Concrete)

Admixtures for Concrete, Thomas J. Reading, CE:Mar 66:52  
Alabama--Low Cement Content for Mass Concrete in TVA's Guntersville Lock, J. C. McCraw, CE:Nov 66:70  
TR:131:634  
A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54

## AERATION

Better Activated Sludge by the Kessener-Brush Aeration Process, H. R. Carter, CE:Dec 66:67  
TR:131:792  
Field Techniques for Evaluating Aerators, Richard A. Conway and Gordon W. Kunkke, SA2:Apr 66:21:4757  
Precipitation of Iron in Aerated Ground Waters, Mriganka M. Ghosh, John T. O'Connor, and R. S. Engelbrecht, SA1:Feb 66:199:4687

Wickenburg Sewage Treatment Plant--An Application of a New Process, J. E. Schaefer, CE:Nov 66:35

## AERODYNAMICS

Aerodynamic Stability of H Sections, Daniel Dicker, EM2:Apr 66:1:4764  
Combined Aerodynamic and Structural Design of Light-Weight Flight Structures, Robert W. Fralich, CE:Aug 66:60  
TR:131:505  
Verrazano-Narrows Bridge: Design of Superstructure, Milton Brumer, Herbert Rothman, Michael Fiegen, and Benjamin Forsyth, CO2:Mar 66:23:4742  
Washington--Legacy of Galloping Gertie (Tacoma Narrows Bridge), Robert Goller, CE:Oct 66:50  
TR:131:704

## AERO-SPACE TRANSPORT

Aircraft Arresting System, Francis J. Rhody, AT2:Oct 66:45:4493  
TR:131:685  
Airport Access, Circulation, and Parking, Alan M. Voorhees, AT1:Jan 66:63:4611  
Airport Accessibility and Detroit Passengers, Rolla Edward Park, AT2:Nov 66:65:4974  
The Airport and its Approaches, James R. Carr and John R. Eva, AT2:Oct 66:39:4490  
TR:131:593  
Airports and the Supersonic Transport, John F. McDonald, AT1:Jan 66:107:4614  
All-Weather Landing Systems, Alexander B. Winick, AT2:Oct 64:85:4077  
TR:131:759  
Bayesian Approach to Forecasting Loss of Airline Service, Arthur E. Tiemann, AT2:Nov 66:59:4964  
Capacity of Airport Systems in Metropolitan Areas, Martin A. Warskow and Arthur E. Tiemann, AT1:Jan 66:35:4609  
Combined Aerodynamic and Structural Design of Light-Weight Flight Structures, Robert W. Fralich, CE:Aug 66:60  
TR:131:505  
Concrete Pavement Performance at Ten Civil Airports, Martin L. Cawley, AT2:Nov 66:83:4981  
Design of the Saturn V Mobile-Launcher, James M. Cunningham, AT2:Nov 66:39:4963  
Development of Space Launch Facilities, Bradley L. Baker, AT2:Nov 66:13:4961  
Economics of Parking Structures at Airports, Paul H. Stafford, AT1:Jan 66:131:4627  
Evolution and Future of Airport Passenger Terminals, Arnold W. Thompson, AT2:Oct 64:127:4064  
TR:131:297

**AERO-SPACE TRANSPORT Continued**

Florida--Criteria for Construction in Creating Another Cape Kennedy Colossus, George H. Kirkland, CE:Oct 65:59

TR:131:694

Influence of V/STOL Aircraft on Airport Design, R. Dixon Speas and Harry P. Schmidt, AT2:Oct 64:167:4096

TR:131:742

Jet Cargo Facility Requirements, Stuart R. Wallace, AT2:Oct 64:135:4068

TR:131:718

Jet Transport Characteristics Related to Airports, Robert Horonjeff and Gale Ahlborn, AT1:Apr 65:33:4301

TR:131:150

The Mobile Concept in Launch Facilities, Augustus M. Allen, AT2:Nov 66:3:4960  
Operation of the Supersonic Transport at Airports, William Magruder, AT2:Oct 64:31:4092

TR:131:351

Quest for an Airport in New Jersey-New York Area, John P. Veerling, AT1:Jan 66:21:4607

Response of Supersonic Transports to Runway Unevenness, Chi Chao Tung, Joseph Penzien, and Robert Horonjeff, AT1:Jan 66:1:4603  
Siting of Manned Lunar Launch Facilities, Arthur G. Porcher, AT1:Jan 66:145:4630  
Stress Repetitions in Pavement Design, Richard G. Ahlvin and Donald N. Brown, AT2:Oct 65:29:4489

TR:131:782

Structural Design of Large Space-Chambers, Lewis H. Blakey, AT2:Nov 66:29:4962

V/STOL Transports and Their Terminal Requirements, Joseph W. Wetmore, AT1:Jan 66:77:4612

**AESTHETICS**

Esthetics for the Highway Engineer, Gordon L. Kirjassoff, CE:Jan 66:69

Dsc, Emery Hertelendy, CE:Mar 66:74; Leon Goodman, CE:Apr 66:65

The U.S. Air Force Conserves Natural Resources, Robert H. Curtin, CE:May 66:43

**AGGREGATES**

A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54

How to Get Good Concrete, Delmar L. Bloem, CE:Mar 66:66

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Eligator, CE:Sept 66:62

Mathematical Method for Blending Aggregates, Donald L. Neumann, CO2:Sept 64:1:4026

TR:131:64

Stability of Fresh Concrete Mixes, Alistair G. B. Ritchie, CO1:Jan 66:17:4610

**AGRICULTURAL ENGINEERING**

Analysis of Water Advance in Surface Irrigation, Yu-Si Fok and A. Alvin Bishop, IR1:Mar 65:99:4259

TR:131:669

ASCE co-sponsors with U.S. Dept. of Agriculture symposium on animal waste management, CE:Sept 66:53

Rice Irrigation, Lee Chow, IR3:Sept 65:35:4472

TR:131:724

**AIRCRAFT**

Aircraft Arresting System, Francis J. Rhody, AT2:Oct 65:45:4493

TR:131:685

Airports and the Supersonic Transport, John F. McDonald, AT1:Jan 66:107:4614

Response of Supersonic Transports to Runway Unevenness, Chi Chao Tung, Joseph Penzien, and Robert Horonjeff, AT1:Jan 66:1:4603

V/STOL Transports and Their Terminal Requirements, Joseph W. Wetmore, AT1:Jan 66:77:4612

**AIR-ENTRAINED CONCRETE**

Admixtures for Concrete, Thomas J. Reading, CE:Mar 66:52

Alabama--Low Cement Content for Mass Concrete in TVA's Guntersville Lock, J.C. McCraw, CE:Nov 65:70

TR:131:634

**AIR POLLUTION**

Air Pollution from Incinerators--Causes and Cures, Leo P. Flood, CE:Dec 65:44

TR:131:734

Dustfall as a Source of Water Quality Impairment, Richard E. Johnson, August T. Rossano, and Robert O. Sylvester, SA1:Feb 66:245:4694

Environmental Standards of Bayport, Harry E. Bovay, Jr., UP1:May 66:35:4813

New York City plans huge incinerator to control air pollution, CE:Aug 66:95

New York City's Air Pollution Index, M.M. Braverman and C. Theophil, CE:Apr 65:64

TR:131:265

Urban Atmospheric Pollution, Albert F. Bush, CE:May 65:66

Dsc: Herbert E. Clark, Jr., CE:Jul 65:76  
M.I. Goldman, CE:Aug 65:74; Author's reply, CE:Aug 65:75

TR:131:325

**AIRPORTS**

Aircraft Arresting System, Francis J. Rhody, AT2:Oct 65:45:4493

TR:131:685

Airport Access, Circulation, and Parking, Alan M. Voorhees, AT1:Jan 66:63:4611

Airport Accessibility and Detroit Passengers, Rolla Edward Park, AT2:Nov 66:65:4974

**AIRPORTS Continued**

The Airport and its Approaches, James R. Carr and John R. Eva, AT2:Oct 65:39:4490  
TR:131:593

Airports and the Supersonic Transport, John F. McDonald, AT1:Jan 66:107:4614

Airports and Transit Systems--the Engineer's Challenge, J.K. Carr, CE:Apr 65:38

Dsc: Herbert C. Westfall, CE:Jun 65:72  
TR:131:233

Army to develop aluminum aircraft-landing mat, CE:Mar 66:107

Capacity of Airport Systems in Metropolitan Areas, Martin A. Warskow and Arthur E. Tiemann, AT1:Jan 66:35:4609

Concrete Pavement Performance at Ten Civil Airports, Martin L. Cawley, AT2:Nov 66:83:4981

Economics of Parking Structures at Airports, Paul H. Stafford, AT1:Jan 66:131:4627

Evolution and Future of Airport Passenger Terminals, Arnold W. Thompson, AT2:Oct 64:127:4064

TR:131:297

Influence of V/STOL Aircraft on Airport Design, R. Dixon Speas and Harry P. Schmidt, AT2:Oct 64:167:4096

TR:131:742

Jet Transport Characteristics Related to Airports, Robert Horonjeff and Gale Ahlborn, AT1:Apr 65:33:4301

TR:131:150

La Guardia Runways Extended over Water, Arne Lier with Eugene Fasullo, CE:Aug 66:32

Military Engineering in Vietnam, Peter A. Corradi, CE:Nov 65:47

TR:131:617

Modulus of Deformation of Pavement Bases, John P. Nielsen, AT1:Jan 66:95:4613

Operation of the Supersonic Transport at Airports, William Magruder, AT2:Oct 64:31:4092

TR:131:351

Planning a National Airport System to Serve the 70's, Cole Morrow, CE:Aug 66:62

TR:131:512

Quest for an Airport in New Jersey-New York Area, John P. Veerling, AT1:Jan 66:21:4607

Response of Supersonic Transports to Runway Unevenness, Chi Chao Tung, Joseph Penzien, and Robert Horonjeff, AT1:Jan 66:1:4603

Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Brandley with W.H. Jervis, CE:Aug 66:58

Small Parking Garages for Huge Los Angeles International Airport, Grant S. Anderson, CE:Aug 66:43

Transportation Centers, Wilbur S. Smith, UP1:Jul 65:19:4396

TR:131:137

V/STOL Transports and Their Terminal Requirements, Joseph W. Wetmore, AT1:Jan 66:77:4612

**ALABAMA RIVER**

Experimental Research on Lock Hydraulic Systems, John P. Davis and Thomas E. Murphy, WW1:Feb 66:17:4643

**ALINEMENT**

New Techniques in Alinement Design and Stakeout, Jack E. Leisch, HW1:Mar 66:23:4711

**ALUMINUM**

Aluminum Columns--Have Capacities of Heat-Treated, Welded Members Been Underestimated?, Herman E. Reitman, CE:June 66:75

Army to develop aluminum aircraft-landing mat, CE:Mar 66:107

Buckling of Aluminum Columns, Plates, and Beams, John W. Clark and Richard L. Rolf, ST3:Jun 66:17:4838

Design of Aluminum Tubular Members, John W. Clark and Richard L. Rolf, ST6:Dec 64:259:4184

TR:131:271

Longitudinal Stiffeners for Compression Members, Maurice L. Sharp, ST5:Oct 66:187:4948

**(ASCE) Awards and Prizes**

ASCE Awards to be Presented, CE:Oct 66:75

ASCE Prizes and Awards announced by Board, CE:June 66:86

1965 Daniel Mead Prizes presented, CE:Feb 66:47

Washington Award goes to Augustus B. Kinzel, CE:July 66:71

**(ASCE) Ballot**

Final Ballot for ASCE Officers for 1967, CE:Oct 66:80

Nominations for ASCE Officers for 1967, CE:July 66:42

**(ASCE) Board of Direction**

ASCE's position on goals in engineering education, CE:June 66:87

Dsc, Raymond A. Hill, CE:Sept 66:81, on the selection of the Society's officers

Dsc, Wallace L. Chadwick, CE:Oct 66:87

Installation of new officers, CE:Oct 66:88

J.L. Konski appointed Director for District 3, CE:July 66:43

Meets in Denver, May 17, CE:June 66:83

Meets in Miami Beach, Jan 31 and Feb 1, CE:Mar 66:87

**(ASCE) Board of Direction Continued**

Meets in Philadelphia, CE:Nov 66:52  
 "Representation on the Board of Direction"  
 (The Younger Viewpoint) Richard Hawkins, CE:  
 Dec 66:60  
 Dsc, Eugene F. Bespalow, CE:Feb 66:74;  
 Earl J. Kramer, CE:May 66:74; Harold A.  
 Hagestad, CE:May 66:74

**(ASCE) Committees**

Committee on Employment Conditions survey  
 shows higher salaries, CE:Apr 66:36  
 Management Education and ASCE, condensed  
 report of Task Committee on Civil Eng. Manage-  
 ment Education, Elmer K. Timby (chairman),  
 CE:May 66:64  
 Manual on Pipeline Location available from  
 Pipeline Division, CE:Mar 66:94  
 Urban Planning and Development Division  
 organizes Committee on Municipal Engineering,  
 CE:Feb 66:77

**(ASCE) Conferences**

Structural Engineering Conference, Miami  
 Beach, Fla., Jan. 31-Feb 4, 1966; Mexico City  
 meeting to follow, CE:Mar 66:73; Program Nov  
 65:89; Dec 65:50; Dec 65:74; Jan 66:75; 1965  
 Daniel Mead Prizes presented, Feb 66:47; Huber  
 Research Prizes presented, Feb 66:76; Report,  
 Mar 66:44; Report-Mexico City, Mar 66:49  
 Transportation Engineering Conference and  
 Annual Meeting, Oct. 17-21, Philadelphia, Pa.,  
 CE:July 66:40; program, Aug 66:65; ASCE  
 awards, Oct 66:75; report Nov 66:44  
 Water Resources Engineering Conference,  
 Denver, Colo., May 15-21, CE:Feb 66:46; Apr  
 66:66; report, June 66:48  
 Dsc, John P. Buehler, CE:July 66:70;  
 analysis of attendance, Aug 66:42

**(ASCE) Contracts**

ASCE-AGC suggested form of contract, 1966  
 edition, CE:Jan 66:80

**(ASCE) Education**

ASCE's position on Goals in Engineering Educa-  
 tion, CE:June 66:87  
 Civil Engineering Education-Report on Member-  
 ship Poll of Metropolitan Section, CE:Apr 66:50  
 Information on goals in engineering education,  
 CE:Feb 66:77  
 William P. Kimball joins ASCE headquarters  
 staff, as Assistant Secretary-Education, CE:  
 June 66:86

**(ASCE) Employment Conditions**

Committee on Employment Conditions survey  
 shows higher salaries, CE:Apr 66:36

**(ASCE) Ethics**

Alabama Section helps oust 5 percenters, CE:  
 Jan 66:80  
 Product Endorsement by Engineers, William  
 H. Wisely, CE:Apr 65:41  
 TR:131:305  
 Summary of ASCE position on product endorse-  
 ment by engineers, CE:Sept 66:90  
 Unethical Sabotage of Public Projects,  
 William H. Wisely, CE:Oct 65:49  
 TR:131:708

**(ASCE) Executive Secretary**

For articles and editorials, see Name Index,  
 William H. Wisely

**(ASCE) Finance**

ASCE sells its 57th street property, CE:July  
 66:76  
 The Economics of ASCE Technical Publi-  
 cations, William H. Wisely, CE:Dec 65:39  
 TR:131:720

**(ASCE) Honorary Members**

ASCE Honorary Member Robert Diemer Dies,  
 CE:Dec 66:40  
 Five elected to honorary membership, CE:Oct  
 66:72

**(ASCE) Insurance**

Effect of medicare on ASCE insurance plan,  
 CE:June 66:55

**(ASCE) Joint Activities**

Interprofessional Relationships in Environmen-  
 tal Design, John G. Duba, CE:Feb 66:49

**(ASCE) Local Sections**

Alabama Section helps oust 5 percenters, CE:  
 Jan 66:80  
 ASCE and the Structural Engineers Association  
 of Southern California publish paper on Earth-  
 quake Safety and Structural Engineering, CE:  
 May 66:46  
 Buffalo Section cosponsors symposium on  
 water, CE:Aug 66:82  
 Civil Engineering Education-Report on Poll of  
 Membership in Metropolitan Section, CE:Apr  
 66:50  
 Local sections encouraged to form urban trans-  
 portation groups, CE:Oct 66:82  
 Los Angeles section analyzes its monthly  
 publications, CE:May 66:79  
 Los Angeles Section sponsors resources  
 management seminar, CE:Dec 66:78  
 Needed: Local Executive Secretaries, (The  
 Younger Viewpoint) Schaefer J. Dixon, CE:June  
 66:94  
 Oregon Section honors Past President Stevens,  
 CE:Apr 66:72



**(ASCE) Local Sections Continued**

Public works projects discussed at Metropolitan section meeting, CE:Dec 66:72  
 San Diego Section names Jean Vincenz engineer of the year, CE:Dec 66:74  
 San Francisco Section engineers plan model city, CE:June 66:84  
 Vermont Sections cosponsors Water Resources Symposium with Univ. of Wisconsin, CE:Sept 66:82  
 You and Your Local Section, W.L. Chadwick, CE:Apr 65:37  
 TR:131:222  
 Your Place in Your Local Section, William H. Wisely, CE:Dec 66:27

**(ASCE) Membership**

New ASCE Directory available to members, CE:Oct 66:83  
 100 Senior Members listed, CE:Jan 66:77  
 Corr. E. DeVoe Tompkins and Olaf E. Mogenson, CE:Mar 66:74  
 Reinstatement to ASCE membership is simple procedure, CE:Sept 66:86  
 Society's West Pakistan unit completes a good year, CE:July 66:76

**(ASCE) National Affairs**

The State of the Society, William J. Hedley, CE:June 66:39

**(ASCE) Officers**

Earle T. Andrews Nominated for President, CE:June 66:55  
 Dec. Raymond A. Hill, CE:Sept 66:81 of the selection of Society's officers  
 Dec. Wallace L. Chadwick, CE:Oct 66:67  
 Installation of new officers, CE:Oct 66:68  
 Nominations for officers for 1967, CE:July 66:42

**(ASCE) Outstanding Civil Engineering**

Achievement Award  
 Projects nominated for OCEA award, CE:Jan 66:46; Complex 39, Mar 66:51; presentation to NASA, Dec 66:41

**(ASCE) Overseas Units**

Society's West Pakistan unit completes a good year, CE:July 66:76

**(ASCE) Policy**

Better Utilization of Society Resources (The Younger Viewpoint) Russell Jones, CE:May 66:82  
 Dec. Arnold M. Cogan, CE:Aug 66:74 of ASCE's position on the New Jersey Planners Law  
 Reply, W. H. Wisely, CE:Aug 66:74

**(ASCE) Presidents**

Earle T. Andrews nominated for President, CE:June 66:55  
 Richard H. Tatlow, III, nominated for ASCE President-Elect, CE:July 66:71  
 William J. Hedley, for articles see name index  
 Corr. Frank M. Cortelyou, CE:Oct 66:67

**(ASCE) Professional Objectives**

Are We Geared to Long-Range Objectives?, Wallace L. Chadwick, CE:Jan 65:38  
 TR:131:5  
 Developing a Social Consciousness (The Younger Viewpoint) Raymond S. Plock, CE:Sept 66:94

**(ASCE) Public Affairs Forum**

Where Is Engineering Education Today?--From the Educator's Viewpoint, Gene M. Nordby, CE:Feb 65:56  
 TR:131:129

**(ASCE) Public Relations**

Needed: Local Executive Secretaries (The Younger Viewpoint) Schaefer J. Dixon, CE:June 66:94  
 Public Relations Activity in ASCE, William H. Wisely, CE:Oct 66:35

**(ASCE) Publications**

Los Angeles Section analyzes its monthly publications, CE:May 66:79  
 Manual on Pipeline location available from Pipeline Division, CE:Mar 66:94  
 Proceedings of 1964 International Symposium on Flexural Mechanics of Reinforced Concrete released by ASCE and American Concrete Institute, CE:June 66:88  
 "Professional Practice of Structural Engineering of Buildings" available, CE:Mar 66:94  
 Readers of Civil Engineering report preferences, CE:May 66:79  
 Reconstructing the ASCE Journals (The Younger Viewpoint) Michael Riddiford, CE:Aug 66:90  
 Technical literature needed for people-to-people program, CE:May 66:80

**(ASCE) Research**

1966 Engineering Foundation research conferences, CE:Apr 66:74  
 Research on sanitary and storm sewers, CE:Mar 66:90; Director of project chosen, Mar 66:90; project begins, May 66:47

**(ASCE) Salaries**

Committee on Employment Conditions survey shows higher salaries, CE:Apr 66:36  
 1965 ASCE Salary Survey: Report of the Committee on Employment Conditions of the Department of Conditions of Practice, ASCE, Franklin Pitcher, Chmn, PP:1:May 66:33:4820

**(ASCE) Secretaries**

Needed: Local Executive Secretaries (The Younger Viewpoint) Schaefer J. Dixon, CE:June 66:94

**(ASCE) Staff**

Carl E. Beam, former staff member, dies, CE:May 66:47  
 Ruth Campbell, Associate Editor, retires, CE:Sept 66:52  
 E. L. Chandler, former Assistant Secretary, dies, CE:Mar 66:90

**(ASCE) Staff Continued**

Kneeland A. Godfrey, Jr., and Ronald A. Atonino join "CIVIL ENGINEERING" editorial staff, CE:Oct 66:82  
 William Griffin joins Technical Publications staff, CE:Sept 66:53  
 Charles F. Hemming joins Office of Public Information, CE:Mar 66:96  
 William P. Kimball joins ASCE headquarters staff as Assistant Secretary-Education, CE:Jun 66:86  
 Al Riefenberg Civil Engineering's new representative in Mid-West, CE:June 66:85  
 Irvin Schwartz leaves ASCE Technical Publications, CE:Aug 66:80  
 Albert Turchick appointed Assistant to the Secretary in the Department of Technical Activities, CE:Dec 66:71

**(ASCE) Student Chapters**

Purdue University hosts fourth Annual Great Lakes Student Chapter Conference, CE:Apr 66:70  
 Student Chapter Scholarships for 1966-67 awarded, CE:Sept 66:83

**(ASCE) Technical Divisions**

Aero-Space Transport Division National Conference, Nov 17-19, Cocoa Beach, Fla., CE:Jun 65:51, Sep 65:44; Program, Oct 65:82; Jan 66:76  
 ASCE Irrigation and Drainage Division holds conference in Los Vegas, CE:Dec 66:72

ASCE Technical Divisions sponsor conference on slopes and embankments, Univ. of Calif., Berkeley, CE:Nov 66:51  
 Coastal Engineering Specialty Conference, Santa Barbara, Calif., Oct 11-13, Program, CE:Sep 65:68; Report, Dec 65:73; Proceedings available, July 66:74

Engineering Mechanics Division Specialty Conference, Washington, Oct 12-14, CE:Sept 66:52  
 Hydraulics Division annual conference, Univ. of Wis., Aug 24-26, CE:Apr 66:72; Program, June 66:80

Irrigation and Drainage Division and American Meteorological Society co-sponsor Weather Modification Meeting, Denver, Colo. Jan 24-27, CE:Jan 66:80; Apr 66:72

Las Vegas to host Irrigation and Drainage Conference, Nov 2-4, CE:Sept 66:86  
 Soil Mechanics and Foundations Division specialty conference, Berkeley, Calif., Aug 22-26, CE:Feb 66:48; report, May 66:79

Structural Division's Fourth National Conference on Electronic Computation, Univ. of Calif. Sept 7-9, CE:Aug 66:41; report Nov 66:84  
 Task Committee on water distribution analysis formed by Hydraulics Division, CE:Apr 66:38

Urban Planning and Development Division Conference, San Juan, Puerto Rico, Oct. 28-29, Program, CE:Sept 65:70; papers available, Nov 66:53

Urban Planning and Development Division organizes Committee on Municipal Engineering, CE:Feb 66:77, Committee meets CE:July 66:75  
 Urban transportation council extends program, CE:May 66:78

**(ASCE) Technical Publications**

The Economics of ASCE Technical Publications, William H. Wisely, CE:Dec 65:39  
 TR:131:720  
 Reconstructing the ASCE Journals (The Younger Viewpoint) Michael Riddiford, CE:Aug 66:90

**(ASCE) Younger Members**

Better Utilization of Society Resources (The Younger Viewpoint) Russel Jones, CE:May 66:82  
 "Representation on the Board of Direction (The Younger Viewpoint) Richard Hawkins, CE:Dec 65:80  
 Dsc, Eugene F. Bepalow, CE:Feb 66:74  
 See Younger Viewpoint in each issue of CIVIL ENGINEERING

**ANALOGS**

Analogue Procedure for Determination of Virtual Mass, O. C. Zienkiewicz and B. Nath, HY5: Sep 64:69;4042  
 TR:131:193

Analog Modeling the California Delta System, James A. Harder and John O. Nelson, HY4: Jul 66:1:4862

Men, Models, Methods, and Machines in Hydrologic Analysis, Willard M. Snyder and John B. Stall, HY2:Mar 65:85:4256  
 TR:131:555

**ANTENNAS**

Arecibo Radar-Radio Telescope—Design and Construction, Thomas C. Kavanagh and David H. H. Tung, CO1:May 65:69:4323  
 TR:131:625

Computer Design of a Tower and Cable System, R. A. Williamsbn, H. F. Stevenson, and P. W. Van der Pas, ST6:Dec 66:34:1:5017  
 Structural Analysis of the Haystack Antenna, William R. Fanning, ST1:Feb 66:43:1:4698

**APARTMENT BUILDINGS**

AISC promotes steel for high-rise buildings, CE:June 66:98  
 Dsc. & corr., William J. LeMessurier, CE:Sept 66:81

Canada--Unique housing project being built at Montreal World's Fair, CE:June 66:100  
 New York's Tallest Concrete-Frame Apartment Buildings--Design and Construction, William E. November, with Robert Rosenwasser, CE:Sept 66:86  
 Corr, B. R. Wellek, CE:Nov 66:78

**AQUEDUCTS**

California--California Water Project, Power Plans and Demands, Alfred R. Golze, CE:Feb 65:35

TR:131:100  
 California--Steel pipe for South Bay Aqueduct, Alfred R. Golze, CE:Mar 65:36

TR:131:166  
 California's State Water Project on Schedule, Haywood G. Dewey, Jr., CE:Jan 66:48  
 Dsc, Howard D. Greyber, CE:May 66:76  
 Author's reply CE:May 66:76

**AQUIFERS**

Analyses of Parameters of an Unconfined Aquifer, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY5:Sept 66:49:4901

**ARCH BRIDGES**

Brown's Timber Railroad Bridge, Karl Cullman, Max Steinhaus, translator, CE:Nov 66: 72

**ARCH DAMS**

Chile--Concrete-arch dam under construction near Santiago, CE:Jan 66:95

Colorado--Reclamation Firsts: Underground Power Plant at Morrow Point Dam, B.P. Bellport, CE:Feb 66:40

TR:131:105

Design of Karadj Arch Dam, Jan A. Veltrop and Roman P. Wengler, PO1:Mar 64:1:3827

TR:131:213

Design and Construction Features: Boundary Project, H. V. Strandberg, PO2:Apr 66:157: 4753

Development of Arch Action in Arch Dams, K. V. Swaminathan, PO1:May 65:39:4329

TR:131:135

Measuring Structural Behavior of Glen Canyon Dam, Joe T. Richardson, SU2:Jul 64:133:3987

TR:131:410

New Shapes for Arch Dams, J. Laginha

Serafim, CE:Nov 66:38

Seismic Study of Arch Dams, J. Laginha Serafim and J. Oliveira Pedro, ST2:Apr 65:15: 4284

TR:131:590

Ultimate Load Capacity of Arch Dams, Jorge I. Bustamante and Emilio Rosenbluth, EM4: Aug 66:21:4879

**ARCHES**

Conjugate Analogy of Space Structures, Zdeněk P. Bazant, ST3:Jun 66:137:4849

Missouri--St. Louis Steel Arch. Symbol of the Spirit of the Pioneers, J.E.N. Jensen, CE:Oct 65:64

TR:131:594

Model Study of Dynamically Loaded Arch Structures, Don R. Denton and William J. Flathau, EM3:Jun 66:17:4848

Research in Soil Structure Interaction, William J. Flathau, ST4:Aug 65:35:4427

TR:131:502

**ARCHITECTURE**

Action or Retreat for Engineers and Surveyors in Regulation of Professional Practice, William A. White, CE:Jan 66:54

Boston architects affiliate with New York Engineering firm, CE:Mar 66:104

**ARCTIC**

Arctic Siting and Surveying, Max O. Laird, SU1:Apr 65:1:4287

TR:131:829

**ASPHALTS**

Asphalt and Scenery on New York State's Northway, CE:Aug 66:46

Asphalt Pavement Placed and Compacted in Thick Lifts, Carl E. Minor, CE:May 66:60

Barge Decks Resurfaced with Asphalts, William P. Helbock, CE:Nov 65:54

TR:131:627

Characteristics of Soil-Asphalt as a Rate Process, M. Abdel-Hady and Moreland Herrin, HW1:Mar 66:49:4719

Quality Control of Asphalt Pavement, Charles R. Foster, CO3:Sept 66:41:4902

**ASTRONOMY**

Computer Program for Horizontal Circle Astronomy, Lawrence A. White, SU2:Jun 66: 1:4834

Pc sition by the Azimuth-Zenith Distance Method, Gabor S. Szava-Kovats, SU2:Jun 66: 13:4843

**AUDITORIUMS**

New York--Saratoga Center for Performing Arts opens, CE:July 66:87

**AUSTRALIA**

Storm Loss Rates for Regions with Limited Data, David H. Pilgrim, HY2:Mar 66:193:4728

**AUTOMATION**

Automated Optimum Cost Building Design, Louis A. Hill, Jr., ST6:Dec 66:247:5013

Canada--Automated train for 1967 Montreal Fair, CE:Jan 66:95

Renaissance in Rapid Transit, Kneeland A. Godfrey, Jr., CE:Dec 66:28

**AUTOMOBILES**

Technological Aspects of Urban Transportation, Donald S. Berry and Paul W. Shuldiner, HW1: Jan 64:53:3768

TR:131:205

**AWARDS AND PRIZES**

AISC honors steel bridges opened in 1965, CE:Nov 66:97

American Institute of Architects honors CBS headquarters building, CE:July 66:86

American Institute of Steel Construction cites seven beautiful steel buildings, CE:Sept 66:99

American Institute of Steel Construction opens 1966 prize bridge competition, CE:Aug 66:98

Bollman truss designated Civil Engineering Landmark, CE:Oct 66:81

Moles awards for 1967 go to two contractors, CE:Dec 66:84

National Ready Mixed Concrete Association to issue conformance certificates for cement producers, CE:Feb 66:91

1965 Projects nominated for Outstanding Civil Engineering Achievement Award, CE:Jan 66:46;

1966 Outstanding Civil Engineering Achievement Award of Merit plaque dedicated, CE:Aug 66:42

Alfred Noble prize awarded, CE:Sept 66:82

OCEA Award for 1966 presented to NASA for Complex 39, CE:Dec 66:41

O. H. Ammann Fellowship awarded, CE:Sept 66:82

**AWARDS AND PRIZES Continued**

Prestressed Concrete Institute honors 15 precast and prestressed concrete projects, CE: Sept 66:100

Society members honored in James F. Lincoln Arc Welding Foundation Award Program, CE: Dec 66:80

U.S. Steel announces winners in bridge design contest, CE:Oct 66:91

**BACKWASHING**

Filtration Through Size-Graded Media, Ernest W. J. Diaper and Kenneth J. Ives, SA3:Jun 65: 89:4378

TR:131:771

**BACKWATER**

Characteristics of M1 Backwater Curves, Nagar S. Lakshmana Rao and K. Sridharan, HY6: Nov 66:131:4985

**BAFFLES**

Use of Baffles in Open Channel Expansions, Clifford D. Smith and James N. G. Yu, HY2: Mar 66:14703

**BARGES**

Barge Decks Resurfaced with Asphalts,

William P. Helbock, CE:Nov 65:54

TR:131:627

**BEACHES**

Mechanism of Sand Movement on Coastal Dunes, Abdel-Latif A. Kadib, WW2:May 66:27:4817

**BEAM COLUMNS**

Experimental Rotation of Steel Beam-Columns, Giuliano Augusti, ST6:Dec 64:171:4175

TR:131:291

Finite Difference Accuracy in Structural Analysis, Nancy Jane Cyrus and Robert E. Fulton, ST6:Dec 66:459:5023

Inelastic Lateral-Torsional Buckling of Beam Columns, Yuhshi Fukumoto and Theodore V. Galambos, ST2:Apr 66:41:4770

Plastic Behavior of Tubular Beam Columns, Timothy J. Dwyer and Theodore V. Galambos, ST4:Aug 65:153:4446

TR:131:537

Random Vibration of a Beam Column, Masanobu Shinozuka and L. Henry, EM5:Oct 65: 123:4510

TR:131:611

Shear Effects in Design of Guyed Towers, Robert A. Williamson and M. N. Margolin, ST5: Oct 66:213:4951

**BEAMS (Structural)**

Analysis of a Shear Wall Supported by a Beam, A. T. Hinkley, ST1:Feb 66:121:4668

Analysis of Suspended Curved Girder, Marcello H. Soto, ST1:Feb 66:21:4662

Anchor Zone Stresses in Prestressed Concrete Beams, Pijushkanti Som and Kalyanmay Ghosh, ST4:Aug 64:49:3996

TR:131:94

Design of Base Plates and Anchor Bolts with Simple Assumptions, Herman Solfer, CE:Apr 66:63

Behavior of Stainless Steel Columns and Beams, Albert L. Johnson and George Winter, ST5:Oct 66:97:4934

Bracing Requirements for Inelastic Steel Beams, Maxwell G. Lay and Theodore V. Galambos, ST2:Apr 66:207:4785

Collapse Loads for Circular-Arc Beams, Neil Jackson, ST5:Oct 66:1:4925

Conjugate Analogy of Space Structures,

Zdeněk P. Bazant, ST3:Jun 66:137:4849

Coupled Vibrations of Thin-Walled Elastic Bars, Wai Keung Tsao, EM3:Jun 65:33:4358

TR:131:175

Discrete Dynamic Models for Elasto-Inelastic Beams, R. Wen and T. Toridis, EM5:Oct 64:71: 4081

TR:131:187

Dynamic Hinge Concept for Beam Variations, Demeter C. Fertis, ST1:Feb 66:365:4689

Dynamic Influence Lines of Beams and Frames,

Fernando Venancio Filho, ST2:Apr 66:371:4797

Dynamic Response of Beam on Viscoelastic Subgrade, Jan D. Achenbach and Chin-teh Sun, EM5:Oct 65:61:4504

TR:131:602

Effect of Large Alternating Strains on Steel Beams, Vitelmo V. Bertero and Egor P. Popov, ST1:Feb 65:1:4217

TR:131:481

Elastic Stresses Around Holes in Wide-Flange Beams, John E. Bower, ST2:Apr 66:85:4773

Exact Solution of the Biaxial Bending Equations, Charles G. Culver, ST2:Apr 66:63:4772

Experimental Stresses in Wide-Flange Beams

with Holes, John E. Bower, ST5:Oct 66:167:4945

Finite Beams on Elastic Foundations, Constantino Miranda and Keshavan Nair, ST2:Apr 66: 131:4778

Flexural Strength of Steel and Concrete Composite Beams, Roger G. Slutter and George C. Driscoll, ST2:Apr 65:71:4294

TR:131:823

Fully-Stressed Design for Alternative Loads, Dhanjoo N. Ghista, ST5:Oct 66:237:4952

Inelastic Lateral Stability Under a Moment Gradient, Campbell Massey and F. S. Pitman, EM2:Apr 66:101:4779

Inelastic Response of Beams to Moving Loads, Teotistios G. Toridis and Robert K. Wen, EM6: Dec 66:43:5028

Inelastic Steel Beams Under Uniform Moment, Maxwell G. Lay and Theodore V. Galambos, ST6:Dec 65:67:4566

TR:131:832

Influence Functions for Beams on Elastic Foundations, Alexander Dodge, ST4:Aug 64:63:4002

TR:131:102

Influence Lines for Beams on Elastic Foundations, K. T. Sundara Raja Iyengar and S. Anantharamu, ST3:Jun 65:45:4359

TR:131:643

Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841

Limit Design of Continuous Reinforced Concrete Crane Girders, M. Z. Cohn, ST3:Jun 66: 161:4850

**BEAMS (Structural) Continued**

On Composite Beams, William R. Spillers,  
ST4:Aug 65:17:4423

TR:131:836

On the Shock Response of Inelastic Beams,  
Kenneth E. Blanchard and Albert B. Shultz,  
EM5:Oct 65:27:4500

TR:131:655

Operational Method for Continuous Beams,  
Bennosuke Tanimoto, ST6:Dec 64:213:4179

TR:131:423

Optimum Synthesis of Prestressed Structures,  
George I. N. Rozvany, ST6:Dec 64:189:4178

TR:131:157

Plastic Analysis and Design of Non-Prismatic  
Members, Bruce G. Rogers and William H.  
Munse, Jr., ST5:Oct 65:299:4519

TR:131:366

Plastic Hinging in Reinforced Concrete, Ned H.  
Burns and Chester P. Siess, ST5:Oct 66:45:4931  
Repeated and Reversed Loading in Reinforced  
Concrete, Ned H. Burns and Chester P. Siess,  
ST5:Oct 66:65:4932

Resonance of Beams Due to Cyclic Moving  
Loads, Alois L. Schlack, Jr. and Theodore F.  
Raske, EM6:Dec 66:175:5047

Restraints Against Elastic Lateral Buckling,  
Lewis C. Schmidt, EM6:Dec 65:1:4561

TR:131:819

Rotational Capacity of Reinforced Concrete  
Beams, W. Gene Corley, ST5:Oct 66:121:4939  
Shock Response of a Simple Beam on Nonlinear  
Supports, Theodore R. Taichert and Robert S.  
Ayre, EM6:Dec 65:91:4570

TR:131:862

Some Improvements on Proposed Eigen-Matrix  
Method, Bennosuke Tanimoto, ST1:Feb 66:101:  
4667

St. Louis' Poplar Street Bridge--Design and  
Fabrication, E.J. Shields, CE:Feb 66:52  
Torsional Restraint of Lateral Buckling, Arthur  
C. Taylor, Jr. and Morris Ojalvo, ST2:Apr 66:  
115:4776

Vibration of a Viscoelastic Timoshenko Beam,  
H. H. Pan, EM2:Apr 66:213:4794

Welded Steel Girders Selected for a Major  
Bridge after a Comparative Study, E. A. Stratton  
with K. K. Chen, CE:Feb 66:56

Wood Beams Prestressed with Bonded Tension  
Elements, John Peterson, ST1:Feb 65:103:4218  
TR:131:379

**BEARING CAPACITY**

Approximation for Terzaghi's Bearing Capacity  
Factors, Raymond J. Krizek, SM2:Mar 65:1:  
4247

TR:131:55

Load-Bearing Walls of Precast Concrete for  
Multi-Story Buildings, Morton H. Eligator, CE:  
Sept 66:62

Pile Load Capacity: Estimates and Test Re-  
sults, William S. Housel, SM4:Jul 66:1:4861

Pore Pressure and Bearing Capacity of Layered  
Clays, T. Cameron Kenney, SM4:Jul 64:27:3960  
TR:131:462

Transmission Tower Foundations, Dallas I.  
Downs and Robert Chieuzzi, PO2:Apr 66:91:  
4750

**BED FORMS**

Nomenclature for Bed Forms in Alluvial Chan-  
nels: Report of the Task Force on Bed Forms  
in Alluvial Channels, ASCE, John F. Kennedy,  
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sive Materials, Committee on Sedimentation,  
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4746

Civil Engineering in City and Regional Plan-  
ning, Melville C. Branch and L. M. K. Boelter,  
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ics: Eighth Progress Report of the Task Force  
on List of Translations of the Committee on  
Hydromechanics, ASCE, Jan C. Van Tienhoven  
Chmn, HY2:Mar 66:53:4713

**BIDS**

Changed Conditions Clause in Construction  
Contracts, Robert F. Borg, CO2:Sept 64:37:4035  
TR:131:118

Contract Award Practices, Hal W. Hunt,  
Douglas H. Logan, Roger H. Corbetta, A.  
Holmes Crimmins, Robert P. Bayard, Edward  
Lore, and Samuel A. Bogen, CO1:Jan 66:1:4604

**BLASTING**

Crushable Materials for Structural Blast  
Shields, Martin A. Salmon and Carl J. Costan-  
tino, ST3:Jun 65:229:4384

TR:131:191

Dynamic Structural Analysis with Short Time  
History, George L. Henderson, ST3:Jun 65:1:  
4352

TR:131:253

Russia--Record dynamite blast aids dam build-  
ing, CE:Dec 66:81

**BOLTS**

A440 Steel Joints Connected by A490 Bolts,  
Gordon H. Sterling and John W. Fisher, ST3:Jun  
66:101:4845

Analysis of Bolted Butt Joints, John W. Fisher  
and John L. Rumpf, ST5:Oct 65:181:4513

TR:131:738

Behavior of Fasteners and Plates with Holes,  
John W. Fisher, ST6:Dec 65:265:4587

TR:131:854

Brittleness in Higher Strength Bolts, Frank  
L. Gill and Roger M. Hansen, ST1:Feb 66:89:  
4666

Calibration of Alloy Steel Bolts, Richard J.  
Christopher, Geoffrey L. Kulak, and John W.  
Fisher, ST2:Apr 66:19:4768

Calibration Tests of A490 High-Strength Bolts,  
Gordon H. Sterling, Emile W. J. Troup, Eugene  
Chesson, Jr., and John W. Fisher, ST5:Oct 65:  
279:4515

TR:131:583

Criteria for Designing Bearing-Type Bolted  
Joints, John W. Fisher and Lynn S. Beedle,  
ST5:Oct 65:129:4511

TR:131:751

Design of Base Plates and Anchor Bolts with  
Simple Assumptions, Herman Solfer, CE:Apr  
66:63

**BOLTS Continued**

High-Strength Bolted Moment Connections,  
Richard T. Douty and William McGuire, ST2:  
Apr 65:101:4298

TR:131:565

High-Strength Bolts Subjected to Tension and  
Shear, Eugene Chesson, Jr., Norberto L.  
Faustino, and William H. Munse, ST5:Oct 65:  
155:4512

TR:131:588

Misalignment in Bolted Joints, Desi D. Vasar-  
helyi and William N. Chang, ST4:Aug 65:1:4422

TR:131:460

Shear Strength of High-Strength Bolts, James  
J. Wallaert and John W. Fisher, ST3:Jun 65:99:  
4368

TR:131:766

Water Leakage at Form Ties, P. Jackson,  
CE:Nov 66:74

**BOUNDARY PROJECT**

Design and Construction Features: Boundary  
Project, H.V. Strandberg, PO2:Apr 66:157:4753

**BRACING**

Inelastic Steel Beams Under Uniform Moment,  
Maxwell G. Lay and Theodore V. Galambos,  
ST6:Dec 65:67:4566

TR:131:832

**BRAZIL**

Neutral Pressures in Compacted Cohesive Soils,  
Francisco P. Silva, SM1:Jan 66:105:4624

**BREAKWATERS**

Breakwater from No-Cost Fill in Flushing Bay,  
N.Y., Bogos Torikoglu, CE:July 66:58

Diffraction of Ocean Waves about a Breakwater,  
Charles T. Morrow, WW3:Aug 66:25:4882

Preliminary Design of Rubble-Mound Struc-  
tures, Lester A. Tinkham, CE:Aug 66:60

**BRICK**

Brick Bearing Walls for Multi-Story Struc-  
tures, Robert D. Dikkers, with John C. Grogan,  
CE:Sept 66:76

**BRIDGE ANCHORAGES**

Verrazano-Narrows Bridge: Construction of  
Tower Foundations and Anchorages, Nomer Gray  
and George H. Dacanay, CO2:Mar 66:95:4744

Verrazano-Narrows Bridge: Design of Tower  
Foundations and Anchorages, Leo H. Just, Ira  
G. Levy, and Vladimir Obricjan, CO2:Mar 66:71:  
4743

**BRIDGE PIERS**

Big Piles for a Deep Lake Crossing, Robert  
Younger, CE:Nov 66:58

Tagus River Bridge--for Highway and Railway  
Traffic, R.M. Boynton, CE:Feb 66:34

Tagus River Bridge--Tower Piers, Louis W.  
Riggs, CE:Feb 66:41

**BRIDGES (Structures)**

Aerodynamic Stability of H Sections, Daniel  
Dicker, EM2:Apr 66:1:4764

AISC honors steel bridges opened in 1965, CE:  
Nov 66:97

American Institute of Steel Construction opens  
1966 prize bridge competition, CE:Aug 66:98  
Bolted Bridge Behavior During Erection and  
Service, Eugene Chesson, Jr., ST3:Jun 65:57:  
4365

TR:131:120

Bridge Demolition at Oroville Dam, CE:Apr  
66:32

Brown's Timber Railroad Bridges, Karl  
Cullmann, Max Steinhilber, translator, CE:Nov  
66:72

California--Feasibility study of second deck  
for Golden Gate Bridge, CE:Feb 66:90

Cascade Orchards Bridge--a Partially Pre-  
stressed Continuous Three-Span Bridge, Arvid  
Grant, CE:Aug 66:62

Computer-Aided Bridge Design, Gerald M  
Sturman, Leland C. Albertson, Jr., C. Allin  
Cornell, and Jose M. Roesset, ST6:Dec 66:141:  
5007

Continuous-Composite All-Welded Bridges,  
Martin C. Rissel with Arthur H. Redman and  
Theodore H. Karasopoulos, CE:Dec 66:42

Contract awarded for study of Mississippi  
River Bridge, CE:July 66:84

Delaware--Delaware Memorial Bridge to have  
twin span, CE:Jan 66:96

Effect of Floods and Obsolescence on Bridge  
Life, Manuel A. Benson and N.C. Matalas,  
HW1:Jan 65:55:4208

TR:131:830

Effect of Spur Dikes on Flow Through Con-  
tractions, E. Robert Hedman, HY4:Jul 65:155:4412

TR:131:722

International Congress on Prestressed Con-  
crete Presents Challenges to American Engi-  
neers, Ben C. Gerwick, Jr., CE:Oct 66:62

Louisiana--Second bridge crossing of Lake  
Pontchartrain planned, CE:Sept 66:99

Maine--Twin spans to carry Interstate 95 over  
Penobscot River, CE:Dec 66:84

Michigan--Fisher Expressway Bridge under  
construction, CE:Feb 66:90

New York--Linseed-Oil Protection for New  
York State Thruway Bridges, Robert J. Walsh,  
CE:Jul 65:39

TR:131:457

Newport Bridge features engineering innova-  
tions, CE:July 66:85

North Carolina--New bridge to open across  
Currituck Sound to Kitty Hawk, CE:Mar 66:105

Ohio--Sciotoville Railroad Bridge honored with  
historical marker, CE:Feb 66:88

Optimum Design of Constant-Depth Plate Gird-  
ers, Reza Razani, and George G. Goble, ST2:  
Apr 66:253:4787

Optimum Design of Mixed Steel Composite  
Girders, George G. Goble and Philip V. De-  
Santis, ST6:Dec 66:25:5001

Putting a Movable Bridge Span Back in Swing,  
Remy P. Papp, CE:July 66:36

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66:39:4969

Roadway to George Washington Bridge and  
Lincoln Tunnel North Tube to be rehabilitated,  
CE:Mar 66:105



**BRIDGES (Structures) Continued**

- South Carolina--Second Cooper River Bridge damaged by fire, CE:Feb 66:89
- St. Louis' Poplar Street Bridge--Design and Fabrication, E. J. Shields, CE:Feb 66:52
- Steel Bridge Girders with Prestressed Composite Tension Flanges, Homer M. Hadley, CE: May 66:70
- Stress Analysis of Cantilevered Bridge Slabs, Alexander Coull, ST2:Apr 66:1:4765
- Structural Analysis of Suspension Bridges, Trevor J. Poskitt, ST1:Feb 66:49:4664
- Structural Welding Codes Revised, Arsham Amirikian, CE:July 66:34
- Tagus River Bridge--for Highway and Railway Traffic, R. M. Boynton, CE:Feb 66:34
- Tests of Partially Prestressed Concrete Girders, Donald D. Nagura and Elvind Hognestad, ST1:Feb 66:327:4685
- Urethane Foam for Pressure-Relief Joints at Bridges, E. J. O'Connor, CE:Oct 66:37
- Verrazano-Narrows Bridge: Conception of Design and Construction Procedure, Othmar H. Ammann, CO2:Mar 66:5:4741
- Verrazano-Narrows Bridge: Construction of Tower Foundations and Anchorages, Nomer Gray and George H. Decanq, CO2:Mar 66:95:4744
- Verrazano-Narrows Bridge: Design of Superstructure, Milton Brumer, Herbert Rothman, Michael Fiegen, and Benjamin Forsyth, CO2:Mar 66:23:4742
- Verrazano-Narrows Bridge: Design of Tower Foundations and Anchorages, Leo H. Just, Ira G. Levy, and Vladimir Obricjan, CO2:Mar 66: 71:4743
- Verrazano-Narrows Bridge: Development and Financing Project, Peter J. Reidy, CO2:Mar 66: 1:4740
- Verrazano-Narrows Bridge: Fabrication and Construction of Superstructure, John W. Kinney, Herbert Rothman, and Frank Stahl, CO2:Mar 66: 119:4745
- Welded Steel Girders Selected for a Major Bridge after a Comparative Study, E. A. Stratton with K. K. Chen, CE:Feb 66:56

**BRITTLENESS**

- Brittleness in Higher Strength Bolts, Frank L. Gill and Roger M. Hansen, ST1:Feb 66:89:4666

**BUCKLING**

- Analysis of an Inelastic Column, John V. Huddleston, EM4:Aug 64:1:3992
- TR:131:787
- Behavior of Stainless Steel Columns and Beams, Albert L. Johnson and George Winter, ST5:Oct 66:97:4934
- Buckling Behavior of an Inelastic Column, Allan J. Malvick and Lawrence H.N. Lee, EM3: Jun 65:113:4372
- TR:131:692
- Buckling Loads for Elastically Supported Struts, A. Raymond Toakley, EM3:Jun 65: 205:4379
- TR:131:168
- Buckling of Aluminum Columns, Plates, and Beams, John W. Clark and Richard L. Rolf, ST3: June 66:17:4838

- Buckling of Eccentrically loaded Steel Columns, Seng-Lip Lee and S. C. Anand, ST2:Apr 66:351: 4796
- Buckling of Long Unsupported Timber Piles, Earle J. Klohn and G. T. Hughes, SM6:Nov 64: 107:4141
- TR:131:235
- Buckling of Multistory Buildings, John E. Goldberg, EM1:Feb 65:51:4223
- TR:131:60
- Buckling of Shallow Arches, H. L. Schreyer and Ernest F. Masur, EM4:Aug 66:1:4875
- Buckling of Soil-Surrounded Tubes, Ulrich Luscher, SM6:Nov 66:211:4990
- Buckling of Three-Legged Columns with Batten Bracing, Jorge Y. Tamayo and Morris Ojalvo, ST1:Feb 65:141:4224
- TR:131:419
- Design of Aluminum Tubular Members, John W. Clark and Richard L. Rolf, ST6:Dec 64:259:4184
- TR:131:271
- Effect of Boundary Conditions on Shell Buckling, Leon R. L. Wang, L. Rodriguez-Agrait, and William A. Little, EM6:Dec 66:101:5035
- Experimental Rotation of Steel Beam-Columns, Giuliano Augusti, ST6:Dec 64:171:4175
- TR:131:291
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- TR:131:575
- Flange Local Buckling in Wide-Flange Shapes, Maxwell G. Lay, ST6:Dec 65:95:4554
- TR:131:806
- Flexural-Torsional Buckling of Planar Frames, Alois J. Hartmann and William H. Munse, EM2: Apr 66:37:4767
- Inelastic Buckling Gradient, Bruce G. Johnston, EM6:Dec 64:31:4158
- TR:131:331
- Inelastic Buckling of Steel Frames, Le-Wu Lu, ST6:Dec 65:185:4577
- TR:131:870
- Inelastic Frame Buckling, Fred Moses, ST6: Dec 64:105:4169
- TR:131:153
- Inelastic Lateral-Torsional Buckling of Beam Columns, Yuhshi Fukumoto and Theodore V. Galambos, ST2:Apr 66:41:4770
- Large Deflection of Heated Plates, Marion W. Wilcox and Lewis E. Clemmer, EM6:Dec 64: 165:4176
- TR:131:181
- Local Instability in Plates and Channel Struts, A. C. Walker, ST3:Jun 66:39:4839
- Longitudinal Stiffeners for Compression Members, Maurice L. Sharp, ST5:Oct 66:187:4948
- Membrane Forces and Buckling in Reticulated Shells, Douglas T. Wright, ST1:Feb 65:173:4227
- TR:131:279
- Optimum Design--Minimum Weight Versus Fully Stressed, Thomas P. Kicher, ST6:Dec 66: 265:5014
- Restraints Against Elastic Lateral Buckling, Lewis C. Schmidt, EM6:Dec 65:1:4561
- TR:131:819
- Shear Effects in Design of Guyed Towers, Robert A. Williamson and M. N. Margolin, ST5: Oct 66:213:4951

**BUCKLING Continued**

- Stability of Plates Using the Finite Element Method, Kanwar K. Kapur and Billy J. Hartz, EM2:Apr 66:177:4790
- Stability of Structures with Small Imperfections, John Roorda, EM1:Feb 65:87:4230
- TR:131:63
- Study of Stability in the Hyperbolic Paraboloid, Kenneth M. Leet, EM1:Feb 66:121:4677
- Torsional-Flexural Buckling of Thin-Walled Members, Alexander Chajes and George Winter, ST4:Aug 65:103:4442
- TR:131:815
- Torsional Restraint of Lateral Buckling, Arthur C. Taylor, Jr. and Morris Ojalvo, ST2:Apr 66:115:4776
- Vibrations and Stability of Buckled Panels, Yao W. Chang and Ernest F. Masur, EM5:Oct 65:1:4497
- TR:131:755

**BUILDING CODES**

- Brick Bearing Walls for Multi-Story Structures, Robert D. Dikkers, with John C. Grogan, CE:Sept 66:76
- Charts Simplify Reinforced-Masonry Design, J.N. Littlefield, CE:Aug 65:73
- TR:131:485
- An Engineering Appraisal of Hurricane Betsy, Melvin W. Jackson, CE:Jan 66:37
- Dsc, Thomas J. Bowen, CE:May 66:76
- Fire Protection of Structural Steel Framing, Roger H. Wildt, CE:Sept 66:70
- Hurricane Betsy in South Florida, Herbert S. Saffir, CE:Aug 66:49
- A Modern Building Code for New York, N.Y., Thomas C. Kavanagh, with Sidney M. Johnson, CE:Sept 66:73
- New York's Tallest Concrete-Frame Apartment Building--Design and Construction, William E. November, with Robert Rosenwasser, CE:Sept 66:66
- Cerr, B.R. Wellek, CE:Nov 66:78
- Penstock Codes--U.S. and Foreign Practice, Andrew Eberhardt, PO2:Apr 66:137:4752
- Structural Welding Codes Revised, Arsham Amirikian, CE:July 66:34
- "Suggested Building Code Provisions for Fall-out Shelters" available, CE:Aug 66:95
- Welding Codes Updated, addenda issued to AWS Building Code and Bridge Specification, CE:May 65:69
- TR:131:549

**BUILDINGS**

- Alabama--Birmingham to build large civic center, CE:Aug 66:97
- Apollo-a Trip to the Moon--symposium, (1) Vertical Assembly Building--Project Description, Organization and Procedures, William D. Alexander, CE:Jan 65:42
- TR:131:11
- Apollo-a Trip to the Moon--symposium, (2) Design of the Vertical Assembly Building, Anton Tedesco, CE:Jan 65:45
- TR:131:53
- Apollo-a Trip to the Moon--symposium, (3) VAB--Design of Foundations, Philip C. Rutledge, CE:Jan 65:50

Dsc: E. M. T. Ryder, CE:Apr 65:80

TR:131:67

ASCE and the Structural Engineers Association of Southern California publish paper on Earthquake Safety and Structural Engineering, CE:May 66:46

Aseismic Design of Multi-Story Systems, E. F. Koinopoulos, ST3:Jun 66:77:4842

Automated Optimum Cost Building Design,

Louis A. Hill, Jr., ST6:Dec 66:247:5013

Brick Bearing Walls for Multi-Story Structures,

Robert D. Dikkers, with John C. Grogan, CE:

Sept 66:76

Buckling of Multistory Buildings, John E.

Goldberg, EM1:Feb 65:51:4223

TR:131:60

Building Design Using Linear Programming,

Moshe F. Rubinstein and John Karagozian, ST6:

Dec 66:223:5012

Combination Water Systems for High-Rise

Buildings, G.D. Testin, CE:Apr 65:65

TR:131:232

Computer Design of 100-Story John Hancock

Center, Fazlur R. Khan, Srinivasa H. Iyengar,

and Joseph P. Colaco, ST6:Dec 66:55:5003

Computers and the Design of The World Trade

Center, Richard E. Taylor, ST6:Dec 66:75:5004

Concrete Need Not Hibernate, Howard C.

Wiechman, CE:Nov 65:78

TR:131:653

Dynamics of Separable Multistory Buildings,

John S. Maybee, John E. Goldberg, and Ervin

D. Herness, EM2:Apr 66:153:4788

Earthquake Damping in Building Frames,

Charles Mackintosh, CE:June 66:70

An Engineering Appraisal of Hurricane Betsy,

Melvin W. Jackson, CE:Jan 66:37

Dsc, Thomas J. Bowen, CE:May 66:76

Florida--Liaison Insures Quality Control for

Vehicle Assembly Building at Cape Kennedy,

Charles I. Orr, CE:Oct 65:56

TR:131:773

Foundations on Fissured Limestone--How They

Were Selected, Henry M. Reitz, CE:Sep 65:52

TR:131:543

Illinois--Chicago engineering center planned,

CE:Mar 66:106

Jackson, Miss, in 2039, A.D. CE:Apr 65:59

Dsc: George C. Stewart, CE:Jul 65:75

TR:131:252

Load-Bearings Walls of Precast Concrete for

Multi-Story Buildings, Morton H. Eligator, CE:

Sept 66:62

Long Trusses Provide Adjustable Space, Harry

P. Vankerhoffs, CE:July 66:67

Dsc, Hamilton V. Bowser, CE:Nov 66:78;

author's reply, CE:Nov 66:78

New York--Development to be built over Penn-

sylvania RR yards, CE:June 66:97

New York--Financial agreement reached on

Trade Center, CE:Sept 66:102

Structural Maintenance--The Third Element in

the Structural Engineer's Professional Package,

T.C. Kavanagh and S.M. Johnson, CE:May 65:52

TR:131:309

Thermal Stresses due to Unequal Thermal

Coefficients of Concrete and Reinforcing Steel,

T.A. Holm, CE:Feb 65:63

TR:131:144



**BUILDINGS Continued**

U. S. Steel to build two plants in Ohio, CE:  
Aug 66:96

**BULKHEADS**

Maintenance--the Systems Approach, Thomas  
C. Kavanagh and Sidney M. Johnson, CE:July  
66:31

**BUREAU OF RECLAMATION**

Colorado--USBR starts work on Silver Jack  
Dam, CE:Nov 66:98

Earthquake simulator ordered by USBR, CE:  
July 66:87

USBR announces 1966 construction program,  
CE:Jan 66:93

USBR summarizes its achievements in 1965,  
CE:July 66:88

**BUSES (Vehicles)**

Technological Aspects of Urban Transportation,  
Donald S. Berry and Paul W. Shuldiner, HW1:  
Jan 64:53:3768

TR:131:205

**CABLES**

Arecibo Radar-Radio Telescope--Design and  
Construction, Thomas C. Kavanagh and David H.  
H. Tung, CO1:May 65:69:4323

TR:131:625

Cable-Supported Warehouse Roof Provides  
Large Open Area, Fred Fischer, Jr., CE:Sept  
66:43

Dac, Walter H. Wheeler, CE:Dec 66:61  
Computer Design of a Tower and a Cable  
System, R. A. Williamson, H. F. Stevenson,  
and P. W. Van der Pas, ST6:Dec 66:341:5017

New method of fabricating suspension bridge  
cables, CE:Feb 66:91

Plastic Cable Covering Introduced on California  
Suspension Bridge, Jackson L. Durkee and  
George B. Shaw, Jr., CE:Feb 66:63

Suspender Ropes for George Washington Bridge  
Pass Rigid Tests but Need Maintenance, Irvine  
P. Goud and Henry A. Druding, CE:July 66:52

Venezuela--Cable spinning for Orinoco River  
bridge begins, CE:Sept 66:102

Verrazano-Narrows Bridge: Design of Super-  
structure, Milton Brumer, Herbert Rothman,  
Michael Fiegen, and Benjamin Forsyth, CO2:  
Mar 66:23:4742

Verrazano-Narrows Bridge: Fabrication and  
Construction of Superstructure, John W. Kinney,  
Herbert Rothman, and Frank Stahl, CO2:  
Mar 66:119:4745

**CAISSONS**

The BART Trans-Bay Tube, George J. Murphy  
with Donald N. Tanner, CE:Dec 66:51  
Sweden--Building Foundation Built as a  
Caisson for Port Storage in Stockholm, Hal W.  
Hunt, CE:Jan 65:60

TR:131:39

Tagus River Bridge--Tower Piers, Louis W.  
Riggs, CE:Feb 66:41

Verrazano-Narrows Bridge: Construction of  
Tower Foundations and Anchorages, Nomer  
Gray and George H. Dacanq, CO2:Mar 66:95:  
4744

**CANALS**

The Amazing Pennsylvania Canals, W. H.  
Shank, CE:Jan 65:66

TR:131:57

California--San Luis Canal contract awarded,  
CE:Jan 66:96

Canal Discharge Measurements with Radio-  
isotopes, Jack C. Schuster, HY2:Mar 65:101:  
4258

TR:131:359

Capacity Tests in Large Concrete-Lined  
Canals, Paul J. Tilp, HY3:May 65:189:4337

TR:131:846

Contract for dam on Cross-Florida canal,  
CE:May 66:94

Control of Weeds Harmful to Water Uses in the  
West, F. Leonard Timmons, WW1:Feb 66:47:  
4645

Duplicate Locks for Illinois Waterway, William  
J. Santina and George B. Wesler, WW4:Nov 64:  
1:4118

TR:131:159

Economic Problem of Irrigation Canals: Seep-  
age Losses, Alfredo Bandini, IR4:Dec 66:35:  
5034

Eliminating Waterlogging Caused by Canal  
Seepage, Abdel-wahab M. Amer, IR2:Jun 66:  
33:4840

Experiments on Small Streams in Alluvium,  
Peter Ackers, HY4:Jul 64:1:3959

TR:131:373

Florida--The Cross-Florida Barge Canal  
Under Construction, F. O. Biehn, CE:May 65:48

TR:131:371

Inland Water Transportation in Poland,  
Fryderick Tomala, WW1:Feb 65:1:4231

TR:131:875

Nuclear Excavation of a Sea-Level Isthmian  
Canal, Luke J. Vortman, WW4:Nov 64:27:4129

TR:131:209

Practical Tonnage Capacity of Canalized  
Waterways, Eric E. Bottoms, WW1:Feb 66:  
33:4644

Public Works in Ancient Mesopotamia, Alfred  
W. Maner, CE:July 66:50

Theoretical Aspects of Seepage from Open  
Channels, Herman Bouwer, HY3:May 65:37:  
4321

TR:131:377

United Arab Republic--Suez Canal to be  
widened, CE:Sept 66:99

**CANTILEVER BRIDGES**

Stress Analysis of Cantilevered Bridge Slabs,  
Alexander Coull, ST2:Apr 66:1:4765

**CAPILLARITY**

Neutral Pressures in Compacted Cohesive  
Soils, Francisco P. Silva, SM1:Jan 66:105:  
4624

**CAVITATION**

Fluctuation of Pressure in Conduit Expansions, Hunter Rouse and Vladimir Jezdinsky, HY3:May 66:14815

Water Hammer Resulting From Cavitating Pumps, M.R. Carstens and T.W. Hagler, Jr., HY6:Nov 64:1614143

TR:131:277

**CEMENTS**

The Cement Industry in the U.S. and Canada, in PCA 50th Anniversary Symposium, CE:Mar 66:32

Expansive Cements for Crack-Resistant Concretes, James F. Simms, CE:June 66:46

Dsc, Herbert M. Stoll, CE:Nov 66:78; author's reply, Nov 66:78

How to Get Good Concrete, Delmar L. Bloem, CE:Mar 66:66

Lone Star Cement to build new plant, CE:Mar 66:106

National Ready Mixed Concrete Association to issue conformance certificates for cement producers, CE:Feb 66:91

Portland Cement Association announces personnel changes, CE:Feb 66:90

Portland Cement Association 50th Anniversary Symposium, CE:Mar 66:32

Dsc, H.N. Huntzicker and George E. Warren, CE:May 66:76

**CHANNEL STABILIZATION**

Laboratory Contributions to Channel Stabilization, Margaret S. Peterson, WW1:Feb 66: 87:4673

**CHANNELS (Waterways)**

Areal Variations of Mean Annual Runoff, Allen G. Hely, HY5:Sept 64:61:4030

TR:131:41

Characteristics of M1 Backwater Curves, Nagar S. Lakshmana Rao and K. Sridharan, HY6:Nov 66:131:4985

Comprehensive River Stabilization, Walter C. Carey, WW1:Feb 66:59:4672

Critical Analysis of Open-Channel Resistance, Hunter Rouse, HY4:Jul 65:1:4387

TR:131:851

Dispersion Measurement in Open Channels, Calvin C. Patterson and Earnest F. Gloyna, SA3:Jun 65:17:4347

TR:131:46

Equilibrium Depth of Scour in Long Constructions, Saburo Komura, HY5:Sept 66:17:4898

Erosion and Deposition of Cohesive Soils, Emmanuel Partheniades, HY1:Jan 65:105: 4204

TR:131:319

Errors in Piezometric Measurement, William W. Emmett and James R. Wallace, HY6:Nov 64: 45:4126

TR:131:217

European Concepts of Sediment Transportation, John L. Bogardi, HY1:Jan 65:29:4195

TR:131:860

Graphical Solution of Problems in Open-Channel Flow, Albert G. Mercer, CE:Aug 66:75

Hydraulic Studies of Jamaica Bay, Armando Balloffet and Arnold Kupferman, HY6:Nov 64: 63:4133

TR:131:255

Hydrographs of Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4701

Influence of Soil Types on Stabilization of the Savannah River, William J. Wall, WW3:Aug 65: 7:4430

TR:131:717

Large-Scale Roughness in Open-Channel Flow, John B. Herbich and Sam Shulits, HY6:Nov 64: 203:4145

TR:131:386

Resistance Relationships for Alluvial Channel Flow, R. J. Garde and Ranga K. G. Raju, HY4: Jul 66:77:4869

River Hydrology, or Fluviology, for Engineers, T. Blench, CE:Nov 66:56

Spectral Analysis of Sand Waves, Carl F. Nordin, Jr. and James H. Algert, HY5:Sept 66: 95:4910

Stability of Channels by Armorplating, Daseel E. Hallmark and George L. Smith, WW3:Aug 65: 117:4452

TR:131:796

Stabilizing the Lower Mississippi River, Ellsworth I. Davis and Ernest B. Lipscomb, CE:Nov 65:64

TR:131:630

**CITY PLANNING**

Alabama--Birmingham to build large civic center, CE:Aug 66:97

Engineers' role in community development, CE:Aug 66:98

**CIVIL DEFENSE**

New Trends in Fallout Protection, Seymour Wengrovitz, and Gordon W. Hirtle, CE: Jul 65:47

TR:131:451

**CIVIL ENGINEERS**

The Civil Engineer and Urban Planning, Eldridge H. Lovelace, UP1:May 66:1:4809

**CLAY (Material)**

Analysis of Clay Deformation As A Rate Process, Richard W. Christensen and Tien Hsing Wu, SM6:Nov 64:125:4147

TR:131:334

Analysis of Consolidation by Rate Process Theory, T. H. Wu, D. Resendiz, and R. J. Neukirchner, SM6:Nov 66:229:4991

Anisotropy and Stress Reorientation in Clay, James M. Duncan and H. Bolton Seed, SM5:Sept 66:21:4903

Behavior of a Soil Mass Under Dynamic Loading, R. W. Sparrow and A. C. Torg, SM3: May 66:59:4825

Clay Mineralogical Aspects of the Atterberg Limits, H. Bolton Seed, Richard J. Woodward, and Raymond Lundgren, SM4:Jul 64:107:3983

TR:131:285

**CLAY (Material) Continued**

Clay Strength Under Earthquake Loading Conditions, H. Bolton Seed and Clarence K. Chan, SM2:Mar 66:53:4723

Compressibility of Clay, Gerald A. Leonards and Adolph G. Altschaeffl, SM5:Sept 64:133:4049

TR:131:303

Consolidation of Nonhomogeneous Clay Layers, Robert L. Schiffman and Robert E. Gibson, SM5:Sept 64:14043

TR:131:659

Eliminating Waterlogging Caused by Canal Seepage, Abdel-wahab M. Amer, IR2:Jun 66:33:4840

Foundation Clay Shrinkage Caused by Large Trees, Mark J. Hammer and Orville B. Thompson, SM6:Nov 66:1:4956

Fundamental Aspects of the Atterberg Limits, H. Bolton Seed, Richard J. Woodward, and Raymond Lundgren, SM6:Nov 64:75:4140

TR:131:531

In-Situ Strength Characteristics of Soft Clays, I. Noorany and H. Bolton Seed, SM2:Mar 65:49:4274

TR:131:323

Interpretation of the Consolidated Test, Carl B. Crawford, SM5:Sept 64:87:4056

TR:131:13

Load Transfer for Axially Loaded Piles in Clay, Harry M. Coyle and Lymon C. Reese, SM2:Mar 66:1:4702

Measuring Instruments for Strutted Excavating, Lauritis Bjerrum, Cameron Kenney, and B. Kjaernsli, SM1:Jan 65:11:4210

TR:131:568

Neutral Pressures in Compacted Cohesive Soils, Francisco P. Silva, SM1:Jan 66:105:4624

Permeability of Compacted Clay, James K. Mitchell, Don R. Hooper, and Richard G. Campenella, SM4:Jul 65:41:4392

TR:131:647

Plane Strain Tests on a Saturated Remolded Clay, David J. Henkel and Neil H. Wade, SM6:Nov 66:67:1970

Pore Pressure and Bearing Capacity of Layered Clays, T. Cameron Kenney, SM4:Jul 64:27:3960

TR:131:462

Radial Drainage Oedometer for Laminated Clays, D. H. Shields and P. W. Rowe, SM1:Jan 65:15:4198

TR:131:339

Shear Strength of a Soil After Freezing and Thawing, Bengt B. Froms and Leslie Y. C. Yao, SM4:Jul 64:1:3958

TR:131:375

Some Swelling Characteristics of Compacted Clays, James V. Parcher and Ping-Chuan Lin, SM3:May 65:1:4316

TR:131:641

Strength Characteristics of Desiccated Clays, Geoffrey E. Blight, SM6:Nov 66:19:4966

Strength Variation Along Failure Surfaces in Clay, J. M. Duncan and H. Bolton Seed, SM6:Nov 66:81:4971

Study of Dynamic and Static Failure Envelopes, B. B. Schimming, H. J. Haas, and H. C. Saxe, SM2:Mar 66:105:4735

Subsoils and Foundation Design in Richmond, Va., Leo Casagrande, SM5:Sept 66:109:4915

**CLEARANCES**

New Uses for Survey Instruments, P. Mignaval, CE:Jan 66:44

**CLIMATOLOGY**

Irrigation Planning Using Climatological Data, Edward H. Wiser, IR4:Dec 65:1:4551

TR:131:849

**COACHELLA VALLEY, CALIFORNIA**

Tile Drainage Performance, Coachella Valley, California, Arthur F. Pillsbury, J. R. Spencer, William R. Johnston, and L. O. Weeks, IR2:Jun 65:1:4344

TR:131:9

**COASTAL ENGINEERING**

Preliminary Design of Rubble-Mound Structures, Lester A. Tinkahm, CE:Aug 66:60

**COEFFICIENTS**

Dividing Flow in an Open Channel, Shiu Wai Law and Alan J. Reynolds, HY2:Mar 66:207:4730

Experiments on Lateral Dispersion in Porous Media, Wen-Hsiung Li and Fu-Hsiung Lai, HY6:Nov 66:141:4966

Flow Characteristics of PVC Sewer Pipe, Lawrence C. Neale and Robert E. Price, SA3:Jun 64:109:3955

TR:131:840

Irrrotational Flow Over Spillways of Finite Height, John J. Cassidy, EM6:Dec 65:155:4591

TR:131:866

Large-Scale Roughness in Open-Channel Flow, John B. Herbich and Sam Shulits, HY6:Nov 64:203:4145

TR:131:386

"Placed-Stone" Jetty, Stone-Weight Coefficients, Harold A. Kidby, Samuel B. Powell, and Arthur L. Roberts, WW4:Nov 64:77:4134

TR:131:203

Wind Loads on Dome-Cylinder and Dome-Cone Shapes, F. J. Maher, ST5:Oct 66:79:4933

**COHESION**

Stress-Dilatancy Performance of Feldspar, I. K. Lee, SM2:Mar 66:79:4743

**COLD WEATHER CONSTRUCTION**

Alaska--Plastic Insulation vs. Deep Trenching for Seldovia Water Mains, Frank Nyman, CE:Mar 65:40

TR:131:207

Alaska--Utilities for a Relocated Town in Valdez, James W. Poirot, CE:Mar 65:50

TR:131:173

Canada--Winnipeg Favors Utility Construction in Winter, W. S. Brock, CE:Jul 65:66

TR:131:442

**COLD WEATHER CONSTRUCTION Continued**

Concrete Need Not Hibernate, Howard C.

Wiechman, CE:Nov 65:78

TR:131:653

Do's and Don'ts of Cold-Weather Concreting,

A. T. Hersey, CE:Jul 65:36

TR:131:464

Ice Core for a Pervious Earth Dam 350 Miles

North of Arctic Circle, Robert A. Dudley,

Robert D. Buchanan and Howard Peoples, CE:

Dec 66:48

Utah--Lift Slabs (in Salt Lake City) Cast

under Plastic Cover for Raising in Spring,

Robert Sawyer, CE:Jul 65:42

TR:131:454

**COLLECTIVE BARGAINING**

Collective Bargaining for Municipal Engineers,

Herman P. Zanon, CE:Sep 65:50

TR:131:577

To Bargain or Not to Bargain, E. Lawrence

Chandler, CE:Aug 65:41

TR:131:492

**COLORADO RIVER**

Determination of Water Use by Phreatophytes

and Hydrophytes, G. H. Hughes and Charles C.

McDonald, HY2:Mar 66:63:4714

Determining Bank Storage of Lake Mead,

Paul A. Richard, IR1:Mar 65:141:4268

TR:131:639

Future Quantity and Quality of Colorado River

Water, Raymond A. Hill, IR1:Mar 65:17:4244

TR:131:837

**COLUMBIA RIVER**

Flow Measurements at Columbia River Power

Plants, Nicholas A. Dodge, HY2:Mar 65:125:

4263

TR:131:760

**COLUMNS (Structural)**

Aluminum Columns--Have Capacities of Heat-

Treated, Welded Members Been Underesti-

mated?, Herman E. Reitman, CE:June 66:75

Analysis of an Inelastic Column, John V.

Huddleston, EM4:Aug 64:1:3992

TR:131:787

Behavior of Diaphragm-Braced Columns and

Beams, George Pincus and Gordon P. Fisher,

ST2:Apr 66:323:4792

Behavior of Reinforced Concrete Columns

with Sidesway, Edward P. Pfrang, ST3:Jun 66:

225:4853

Behavior of Restrained Reinforced Concrete

Columns, Edward O. Pfrang and Chester P.

Siess, ST5:Oct 64:113:4111

TR:131:341

Behavior of Stainless Steel Columns and

Beams, Albert L. Johnson and George Winter,

ST5:Oct 66:97:4934

Boiler Column Straightening Under Load Con-

ditions, James F. O'Sullivan and Dallas I.

Downs, PO2:Apr 66:115:4751

Buckling Behavior of an Inelastic Column,

Allan J. Malvick and Lawrence H. N. Lee,

EM3:Jun 65:113:4372

TR:131:692

Buckling of Aluminum Columns, Plates, and

Beams, John W. Clark and Richard L. Rolf,

ST3:Jun 66:17:4838

Buckling of Eccentrically Loaded Steel

Columns, Seng-Lip Lee and S. C. Anand, ST2:

Apr 66:351:4796

Buckling of Long Unsupported Timber Piles,

Earle J. Kohn and G. T. Hughes, SM6:Nov 64:

107:4141

TR:131:235

Buckling of Three-Legged Columns with Batten

Bracing, Jorge Y. Tamayo and Morris Ojalvo,

ST1:Feb 65:141:4224

TR:131:419

Design of Base Plates and Anchor Bolts with

Simple Assumptions, Herman Solfer, CE:Apr

66:63

Design of Footing for Exposed Exterior Column,

Yin-chow Chang, SM4:Jul 65:77:4401

TR:131:352

Exact Solution of the Biaxial Bending Equa-

tions, Charles G. Culver, ST2:Apr 66:63:4772

Factors Effecting Seismic Design of Water

Towers, B. K. Ramiah and D. S. Rajata Mohana

Gupta, ST4:Aug 66:13:4886

Inelastic Buckling Gradient, Bruce G. Johnston,

EM6:Dec 64:31:4158

TR:131:331

Initial Imperfections in Biaxial Bending,

Charles G. Culver, ST3:Jun 66:119:4846

New York's Tallest Concrete-Frame Apart-

ment Building--Design and Construction,

William E. November, with Robert Rosen-

wasser, CE:Sept 66:66

Corr, B. R. Wellek, CE:Nov 66:78

Predicting Structural Behavior Analytically,

Edward O. Pfrang and Chester P. Siess, ST5:

Oct 64:99:4110

TR:131:289

Strength of Round Steel Columns, Theodore

V. Galambos, ST1:Feb 65:121:4219

TR:131:257

Three-Dimensional Analysis of Tier Build-

ings, William Weaver, Jr. and Mark F.

Nelson, ST6:Dec 66:385:5019

Torsional-Flexural Buckling of Thin-Walled

Members, Alexander Chajes and George Winter,

ST4:Aug 65:103:4442

TR:131:815

**COMMUNICATIONS**

Manager and/or Engineer?, Vinton W. Bacon,

CE:May 66:58

**COMPACTING**

Influence of Modern Construction Equipment on

San Luis Dam, Thomas P. Bixby, CE:Nov 66:60

The Lewis Smith Rockfill Dam, James A.

Tyson, PO1:Jan 66:81:4633

Neutral Pressures in Compacted Cohesive

Soils, Francisco O. Silva, SM1:Jan 66:105:

4624

Pore Water Pressures in Unsaturated Soils,

Roy E. Olsen and Leonard J. Langfelder, SM4:

Jul 65:127:4409

TR:131:365

**COMPACTING Continued**

Quality Control of Compacted Earthwork, W. J. Turnbull, J. R. Compton, and R. G. Ahlvin, SM1:Jan 66:93:4623

Shear Strength of a Soil After Freezing and Thawing, Bengt B. Broms and Leslie Y. C. Yao, SM4:Jul 64:1:3958

TR:131:375

Soil Surface Compaction with a Foam-Type Explosive, L. J. Goodman, A. R. Aidun, and C. S. Grove, Jr., SM1:Jan 65:143:4211

TR:131:534

**COMPOSITE CONSTRUCTION**

Behavior of Square Infilled Frames, Bryan Stafford Smith, ST1:Feb 66:381:4690

Composite Design Cuts Cost of Small Warehouse, Edward B. Finkel, CE:Aug 65:46

TR:131:469

Continuous-Composite All-Welded Bridges, Martin C. Rissel with Arthur H. Redman and Theodore H. Karasopoulos, CE:Dec 66:42

**COMPOSTING**

Composting for municipal refuse disposal to be studied by TVA and USPHS, CE:May 66:94

Economics of Composting Municipal Refuse in Europe and Israel, George J. Kupchik, SA6:Dec 66:41:5036

**COMPUTATION**

ASCE Structural Division's Fourth National Conference on Electronic Computation, Univ. of Calif., Sept 7-9, CE:Aug 66:41

Guide to Development and Use of Electronic Computer Programs: Introduction, Steven J. Fenves, ST6:Dec 64:1:4151

TR:131:261

Interaction of Shear Walls and Frames, Fazlur R. Khan and John A. Sbarounis, ST3:Jun 64:285:3957

TR:131:247

**COMPUTER PROGRAMS**

Needed Research Projects in Surface Water Hydrology, Task Committee on Development of Research Projects in Surface Water Hydrology, Hydraulics Division, ASCE, Carl W. Morgan, Chmn., HY6:Nov 66:101:4982

**COMPUTERS**

Analysis of High Guyed Towers, Ezra G. Odley, ST1:Feb 66:169:4671

Analysis of Multicell Box Gates for Dry Docks, Mohamed Ali El-gaaly, ST3:Jun 65:171:4380

TR:131:435

Artificial Intelligence and Structural Design, William R. Spillers, ST6:Dec 66:491:5025

Aseismic Design of Multistory Systems, E. F. Kokinopoulos, ST3:Jun 66:77:4842

Automated Optimum Coat Building Design, Louis A. Hill, Jr., ST6:Dec 66:247:5013

AUTOSPEC: Automated Preparation of Specifications, G. Neil Harper, ST6:Dec 66:45:5002

Building Design Using Linear Programming, Moshe F. Rubinstein and John Karagozian, ST6:Dec 66:223:5012

Challenge to Civil Engineering, Harvey Brooks, PP1:Jan 64:21:3750

TR:131:344

CMP--As Complete Project Management, Burl W. Howard, CO1:May 65:99:4324

TR:131:628

Computer-Aided Bridge Design, Gerald M. Sturman, Leland C. Albertson, Jr., C. Allin Cornell, and Jose M. Roeset, ST6:Dec 66:141:5007

Computer-Aided Land Surveying, J. H. Millett, J. W. King and H. J. Ridinger, CE:Oct 66:58  
Computer Analysis of Overland Flow, James R. Morgali and Ray K. Linsley, HY3:May 65:81:4325

TR:131:857

Computer Analysis of Plane and Space Structures, Semih S. Tezcan, ST2:Apr 66:143:4780

Computer Analysis of the F-111 Wing Assembly, Joseph Antebi, Edwin C. Rossow, Indravadan K. Shah, and Jayant M. Shah, ST6:Dec 66:405:5020

Computer Analysis of Towers Verified by Testing, Charles F. Beck and Max Zar, ST6:Dec 66:361:5018

Computer Analysis of Underground Frames, Albert M. Lount and W. R. Smyth, ST6:Dec 66:93:5005

Computer Design of a Tower and Cable System, R. A. Williamson, H. F. Stevenson, and P. W. Van der Pas, ST6:Dec 66:34:5017

Computer Design of 100-Story John Hancock Center, Fazlur R. Khan, Srinivasa H. Iyengar, and Joseph P. Colaco, ST6:Dec 66:55:5003

Computer Program for Horizontal Circle Astronomy, Lawrence A. White, SU2:Jun 66:1:4834

Computer Program for Leveling Resource Usage, Robert V. Galbreath, CO1:May 65:107:4327

TR:131:596

Computer Selection: New Role for the Civil Engineer, M. D. Sinkoff, CE:Jan 66:58  
Computer System Designed for Teaching and Structural Research at MIT, William A. Little and Kenneth Reinschmidt, CE:Aug 65:71

TR:131:542

Computers and the Design of The World Trade Center, Richard E. Taylor, ST6:Dec 66:75:5004

Computerized system for graduate placement, CE:May 66:80

Critical Path Method used for Anheuser-Busch Expansion, CE:Apr 66:80

Data Handling Systems in Water Pollution Control, Richard S. Green, Donald P. Dubois, and Clarence W. Tutwiller, SA1:Feb 66:55:4652  
DATALINK: A Structural Laboratory On-Line Language, Kenneth F. Reinschmidt, ST6:Dec 66:213:5011

Design of the Saturn V Mobile-Launcher, James M. Cunningham, AT2:Nov 66:39:4963

Digital Simulation of Heat Flow in Soils, Charles Carroll, Hilbert Schenck, Jr., and Wayne Williams, SM4:Jul 66:31:4865

## COMPUTERS Continued

Dynamic Structural Analysis with Short Time History, George L. Henderson, ST3:Jun 65:1:4352

TR:131:253

Earthquake Response of Systems with Bilinear Hysteresis, Spiro S. Thomaides, ST4:Aug 64:123:4009

TR:131:26

Elastic Stresses Around Holes in Wide-Flange Beams, John E. Bower, ST2:Apr 66:85:4773

Electronic Computation: Past, Present, Potential, Elwyn H. King, ST6:Dec 66:3:5000

Electronic Computation in Engineering Education, Harvey R. Fraser with Shu-tien Li, CE:Mar 66:71

Electronics in Surveying, Edmond T. Miller, CE:May 65:29

TR:131:307

Environment for Problem-Oriented Languages, Edward L. Murphee, Jr., John W. Melin, and Steven J. Fenves, ST6:Dec 66:167:5008

Estuarine Water Quality Management and Forecasting, Robert V. Thomann and Matthew J. Sobel, SA5:Oct 64:9:4116

TR:131:808

An Explicit Friction-Factor Relationship, Don J. Wood, CE:Dec 66:80

Extending CPM for Multiform Project Time-Cost Curves, Walter L. Meyer and Louis R. Shaffer, CO1:May 65:45:4319

TR:131:491

Finite Difference Accuracy in Structural Analysis, Nancy Jane Cyrus and Robert E. Fulton, ST6:Dec 66:459:5023

Finite Element Analysis of Axi-Symmetric Solids, Ray W. Clough and Yusef Rashid, EM1:Feb 65:71:4229

TR:131:98

Florida--Criteria for Construction in Creating Another Cape Kennedy Colossus, George H. Kirkland, CE:Oct 65:59

TR:131:694

Flow Graph Solutions of Band Matrix Problems, Chuan C. Feng and Larry J. Feeser, EM1:Feb 66:25:4656

Frame Instability and Strain Hardening in Plastic Theory, J. Michael Davies, ST3:Jun 66:1:4836

Generalized Resection Method in Surveying, K. C. Chakko, SU1:Apr 65:23:4290

TR:131:421

Ground-Water Models Solved by Digital Computer, Irwin Remson, Charles A. Appel, and Raymond A. Webster, HY3:May 65:133:4330

TR:131:855

Guide to Development and Use of Electronic Computer Programs: Computers and Programming, Charles L. Miller and Steven J. Fenves, ST6:Dec 64:7:4152

TR:131:3

Guide to Development and Use of Electronic Computer Programs: Introduction, Steven J. Fenves, ST6:Dec 64:1:4151

TR:131:261

Guide to Development and Use of Electronic Computer Programs: Program Planning, Steven J. Fenves, ST6:Dec 64:19:4153

TR:131:15

Heuristic Games for Structural Design, Tung Au, ST6:Dec 66:499:5026

Hydraulic Studies of Jamaica Bay, Armando Balloffet and Arnold Kupferman, HY6:Nov 64:63:4133

TR:131:255

HYDRO, a Computer Language for Water Resources Engineering, George Bugliarello et al, CE:Nov 66:69

Hydropower Project Output Optimization, Warren A. Hall and Theodore G. Roefs, PO1:Jan 66:67:4628

Ill-Conditioned Stiffness Matrices, Jayant M. Shah, ST6:Dec 66:443:5022

Improved Design of Fluid Networks with Computers, Thomas A. Marlow, R. Logan Hardison, Henry Jacobson, and Gilbert E. Biggs, HY4:Jul 66:43:4866

Iterative Design and Structural Optimization, Kenneth F. Reinschmidt, C. Allin Cornell, and John F. Brtochie, ST6:Dec 66:281:5015

Machine Computation of Trigonometric Functions, David Bushnell and Wayne A. Madsen, EM6:Dec 66:157:5046

Mathematical Model for Water Pollution Control Programs, Alvin S. Goodman and William E. Dobbins, SA6:Dec 66:1:5031

Men, Models, Methods, and Machines in Hydrologic Analysis, Willard M. Snyder and John B. Stall, HY2:Mar 65:85:4256

TR:131:555

Multiple Folded Plates, Kuang-Han Chu and S. G. Pinjarkar, ST2:Apr 66:297:4791

Multivariate Technique for Synthetic Hydrology, Myron B. Fiering, HY5:Sept 64:43:4027

TR:131:107

New Techniques in Alignment Design and Stakeout, Jack E. Leisch, HW1:Mar 66:23:4711

Numerical Analysis of Translational Shell Roofs, Arthur W. Hedgren, Jr. and David P. Billington, ST1:Feb 66:223:4679

Numerical Solution to a Dispersion Equation, Nobuhiro Yotsukura and Myron B. Fiering, HY5:Sept 64:83:4046

TR:131:444

Optimum Design--Minimum Weight Versus Fully Stressed, Thomas P. Kicher, ST6:Dec 66:265:5014

Optimum Design of Constant-Depth Plate Girders, Reza Razani and George G. Goble, ST2:Apr 66:253:4787

Optimum Design of Mixed Steel Composite Girders, George G. Goble and Philip V. DeSantis, ST6:Dec 66:25:5001

Optimum Structural Design Using Linear Programming, Fred Moses, ST6:Dec 64:89:4163

TR:131:171

POST: Problem-Oriented Subroutine Translator, John W. Melin, ST6:Dec 66:179:5009

## COMPUTERS Continued

- Processing Streamflow Data: Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F. J. Flynn, Chmn, HY2:Mar 66:145:4725
- Rapid Assessment of Sprinkler Performance, R. Culver and R. F. Sinkler, IRI:Mar 66:1:4706
- Remote Conversational Computing in Civil Engineering, S. H. Haackel and M. D. Sinkoff, CE:Apr 66:29
- Dsc, Morton B. Lipetz, CE:June 66:79
- Response of Supersonic Transports to Runway Unevenness, Chi Chao Tung, Joseph Penzien, and Robert Horonjeff, AT1:Jan 66:1:4603
- Selective Inversion of Stiffness Matrices, James L. Tocher, ST1:Feb 66:75:4665
- Shock Response of a Simple Beam on Non-linear Supports, Theodore R. Tauchert and Robert S. Ayre, EM6:Dec 65:91:4570
- TR:131:862
- Solution of Anisotropic Seepage by Finite Elements, Olgied C. Zienkiewicz, Paul Mayer, and Yau Kai Cheung, EM1:Feb 66:111:4676
- Solution of Highly Curvilinear Gravity Flows, Theodor S. Strelkoff, EM3:Jun 64:195:3950
- TR:131:355
- Stadia--an Automatic Data Input Assembler for Topographic Surveys, Paul D. Spindel, CE:May 65:51
- TR:131:580
- Steel Fabrication Drawings by Computer, Alfred H. Palmer and Herbert T. Blomquist, CE:Feb 65:50
- Dsc: Henry G. Hurd, CE:May 65:74, reply by author, May 65:74
- TR:131:116
- Structural Analysis by Networks, Matrices, and Computers, Steven J. Fenves, ST1:Feb 66:199:4674
- Structural Analysis of Suspension Bridges, Trevor J. Poskitt, ST1:Feb 66:49:4664
- Structural Analysis of the Haystack Antenna, William R. Fanning, ST1:Feb 66:431:4698
- Structural Optimization by Nonlinear Programming, Daniel M. Brown and Alfredo H. -S. Ang, ST6:Dec 66:319:5016
- STRUDL--A Computer System for Structural Design, Robert D. Logcher and Gerald M. Struman, ST6:Dec 66:191:5010
- Synthesis of a Space Truss Based on Dynamic Criteria, J. William Young, Jr. and Henry N. Christiansen, ST6:Dec 66:425:5021
- Tabular Decision Logic for Structural Design, Steven J. Fenves, ST6:Dec 66:473:5024
- Theoretical Analysis of Suspension Bridges, Saafan A. Saafan, ST4:Aug 66:1:4885
- Three-Dimensional Analysis of Tier Buildings, William Weaver, Jr. and Mark F. Nelson, ST6:Dec 66:385:5019
- Torsional Restraint of Lateral Buckling, Arthur C. Taylor, Jr. and Morris Ojalvo, ST2:Apr 66:115:4776
- Tractive-Force Distribution in Open Channels, John Asher Replogle and Ven Te Chow, HY2:Mar 66:169:4727
- Two Different Approaches to Subway Design, Winfield O. Salter, ST6:Dec 66:117:5006

Vertical Drainage of an Unsaturated Soil, Irwin Remson, Ronald L. Drake, Samuel S. McNeary, and Edward M. Wallo, HY1:Jan 65:55:4196

TR:131:223

Water Pressure on Dams Subjected to Earthquakes, Jorge I. Bustamante and Armando Flores, EM5:Oct 66:115:4954

Wave-Plan Analysis of Unsteady Flow in Closed Conduits, Don J. Wood, Robert G. Dorsch, and Charlene Lightner, HY2:Mar 66:83:4716

## CONCRETE

Admixtures for Concrete, Thomas J. Reading, CE:Mar 66:52

Alabama--Low Cement Content for Mass Concrete in TVA's Guntersville Lock, J. C. McCraw, CE:Nov 65:70

TR:131:634

Anchor Zone Stresses in Prestressed Concrete Beams, Pijushkanti Som and Kalyanmay Ghosh, ST4:Aug 64:49:3996

TR:131:94

ASCE--ACI joint volume "Symposium on Reinforced Concrete Columns," CE:Oct 66:80

Augered-in Concrete Piles Support Boeing Aerospace Activities, Norman L. Liver, CE:Oct 66:60

Bellefonte Locks on the Ohio River, R. B. Howard, CE:Nov 65:51

TR:131:621

Cable-Supported Warehouse Roof Provides Large Open Area, Fred Fischer, Jr., CE:Sept 66:43

Dsc, Walter H. Wheeler, CE:Dec 66:61

Capacity Tests in Large Concrete-Lined Canals, Paul J. Tilp, HY3:May 65:189:4337

TR:131:846

Cast-in-Place Concrete Connects Precast Members, S. A. Erech, CE:Mar 66:64

Cellular Concrete Block Revetment, D. A. Parsons and R. P. Apmann, CE:Feb 65:66

TR:131:128

The Cement Industry in the U.S. & Canada, in PCA 50th Anniversary Symposium, CE:Mar 66:32

Cement-Treated Subbase Practice in U. S. and Canada, Edward L. Kawala, HW2:Oct 66:75:4947

A Children's Hospital for Poland with Research and Teaching Facilities, Witold Pytowski, CE:Nov 66:64

A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54

Concrete Need Not Hibernate, Howard C. Wiechman, CE:Nov 65:78

TR:131:653

Concrete Pavement Performance at Ten Civil Airports, Martin L. Cawley, AT2:Nov 66:83:4981

Connections for Precast Members Can Be Trouble-Free, Paul Gordon, CE:July 66:62

Do's and Don'ts of Cold-Weather Concreting, A. T. Hersey, CE:Jul 65:36

TR:131:464



**CONCRETE Continued**

- England--New concrete society formed, CE: Oct 66:91
- Expansive Cements for Crack-Resistant Concretes, James F. Simms, CE:June 66:46
- Dsc, Herbert M. Stoll, CE:Nov 66:78;
- author's reply, Nov 66:78
- Hazards of Hot-Weather Concreting, William A. Mowery, CE:Aug 66:56
- Highway Equipment--Wheelbarrow to Slip Form Paver, in PCA 50th Anniversary Symposium, CE:Mar 66:32
- Highways From Yesterday to Tomorrow, in PCA 50th Anniversary Symposium, CE:Mar 66:32
- How to Get Good Concrete, Delmar L. Bloem, CE:Mar 66:66
- Interaction of Shear Walls and Frames, Fazlur R. Khan and John A. Sbarounis, ST3:Jun 64:285:3957
- TR:131:247
- La Guardia Runways Extended over Water, Arne Lier with Eugene Fasullo, CE:Aug 66:32
- Lateral Pressure of Concrete on Formwork, R. L. Peurifoy, CE:Dec 65:60
- Dsc and addendum: A. G. G. Ritchie, CE: Mar 66:86; Peter D. Courtois, CE:Apr 66:84
- TR:131:679
- Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Eligator, CE:Sept 66:62
- Lunar Launch Complex 39, Victor F. Leabu, CE:May 66:37
- National Ready Mixed Concrete Association to issue conformance certificates for cement producers, CE:Feb 66:91
- New York--Linseed-Oil Protection for New York State Thruway Bridges, Robert J. Walsh, CE:Jul 65:39
- TR:131:457
- New York's Tallest Concrete-Frame Apartment Building--Design and Construction, William E. November, with Robert Rosenwasser, CE:Sept 66:66
- Corr, B. R. Wellek, CE:Nov 66:78
- Prestressed Concrete Institute, Annual Conference, Miami Beach, Dec 1965, CE:Jan 66:92
- Quality Control for Precast Concrete Construction, Arthur R. Anderson, CE:Mar 66:56
- Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units; Progress Report by the Task Committee on Precast Concrete Design and Construction, Structural Division, ASCE, P. H. Kaar, Chmn., ST5:Oct 66: 119:4935
- Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Bradley with W. H. Jervis, CE:Aug 66:58
- Stability of Fresh Concrete Mixes, Alistair G. B. Ritchie, COI:Jan 66:17:4610
- Structural Behavior in a Gypsum Roof-Deck System, John E. Johnson and Albert D. M. Lewis, ST2:Apr 66:283:4789
- Tests of Partially Prestressed Concrete Girders, Donald D. Magura and Elvind Hognestad, ST1:Feb 66:327:4685

- Ultimate Load Capacity of Arch Dams, Jorge I. Bustamante and Emilio Rosenblueth, EM4:Aug 66: 21:4879
- Understanding the Corrosion Resistance of Concrete Pipe, John A. Shaw, CE:Jun 65:39
- TR:131:396
- Urethane Foam for Pressure-Relief Joints at Bridges, E. J. O'Connor, CE:Oct 66:37
- Verrazano-Narrows Bridge: Construction of Tower Foundations and Anchorages, Nomer Gray and George H. Dacanay, CO2:Mar 66:95:4744
- Water Leakage at Form Ties, P. Jackson, CE:Nov 66:74

**CONCRETE BRIDGES**

- Bridge Demolition at Oroville Dam, CE:Apr 66:32
- Cascade Orchards Bridge--a Partially Prestressed Continuous Three-Span Bridge, Arvid Grant, CE:Aug 66:62

**CONCRETE DAMS**

- Ultimate Load Capacity of Arch Dams, Jorge I. Bustamante and Emilio Rosenblueth, EM4:Aug 66: 21:4879

**CONDUITS (Water)**

- Distribution of Head at a Rectangular Conduit Outlet, Satya Prakash Garg, HY4:Jul 66:11:4863
- Epoxy Replaces Steel Armor at Discharge Control Gates, John C. Rowland, CE:July 66:64
- An Explicit Friction-Factor Relationship, Don J. Wood, CE:Dec 66:60
- Flow in Culverts and Related Design Philosophies, Fred W. Blaisdell, HY2:Mar 66:19:4704
- Hydraulic Efficiency in Culvert Design, Fred W. Blaisdell, HW1:Mar 66:11:4709
- Single-Port Suction Manifolds, Ronald E. Nece, Peter P. Goldstern, and Jared L. Black, HY1: Jan 66:43:4620
- Wave-Plan Analysis of Unsteady Flow in Closed Conduits, Don J. Wood, Robert G. Dorsch, and Charlene Lightner, HY2:Mar 66:83:4716

**CONJUGATE BEAM METHOD**

- Conjugate Analogy of Space Structures, Zdeněk P. Bazant, ST3:Jun 66:137:4849

**CONNECTORS**

- Flexural Strength of Steel and Concrete Composite Beams, Roger G. Slutter and George C. Driscoll, ST2:Apr 65:71:4294
- TR:131:823

**CONSERVATION**

- Dsc, Charles D. Babcock, CE:Sept 66:81, on Engineers helping to conserve natural resources
- The U.S. Air Force Conserves Natural Resources, Robert H. Curtin, CE:May 66:43

**CONSOLIDATION**

- Analysis of Consolidation by Rate Process Theory, T. H. Wu, D. Resendiz, and R. J. Neukirchner, SM:Nov 66:229:4991
- Construction consultants retained for Albany Mall Project, CE:July 66:84



**CONSOLIDATION Continued**

Consolidation of Slightly Overconsolidated Soils, Gerald Patrick Raymond, SM5:Sept 66:1:4893

Consolidation Testing with Back Pressure, John Lowe, III, Philip F. Zacheo, and Harvey S. Feldman, SM5:Sep 64:69:4058

TR:131:121

Differential Settlement at Selfridge Air Force Base, George B. Wallace and William C. Otto, SM5:Sep 64:197:4047

TR:131:70

Engineering Measurements for Port Allen Lock, R.I. Kaufman and W.C. Sherman, Jr., SM5:Sep 64:221:4020

TR:131:29

Interpretation of the Consolidation Test, Carl B. Crawford, SM5:Sep 64:87:4056

TR:131:13

Stress-Strain Relationships in Triaxial and Consolidation Tests, Dalim K. Majumdar and Gary G. La France, CE:July 66:68  
Subsoils and Foundation Design in Richmond, Va., Leo Casagrande, SM5:Sept 66:109:4915

**CONSTRUCTION**

Arecibo Radar-Radio Telescope--Design and Construction, Thomas C. Kavanagh and David H.H. Tung, COI:May 65:69:4323

TR:131:625

Belleville Locks on the Ohio River, R.B.

Howard, CE:Nov 65:51

TR:131:621

Cement-Treated Subbase Practice in U.S. and Canada, Edward L. Kawala, HW2:Oct 66:75:4947

Changed Conditions Clause in Construction Contracts, Robert F. Borg, CO2:Sep 64:37:4035

TR:131:118

CMP--As Complete Project Management, Burl W. Howard, COI:May 65:99:4324

TR:131:628

Computer Program for Leveling Resource Usage, Robert V. Galbreath, COI:May 65:107:4327

TR:131:596

Contract Award Practices, Hal W. Hunt, Douglas H. Logan, Roger H. Corbetta, A. Holmes Crimmins, Robert P. Bayard, Edward Lore, and Samuel A. Bogen, COI:Jan 66:1:4604

Contractor's View on Unlined Tunnels, Alfred M. Petrofsky, PO3:Oct 64:91:4086

TR:131:43

Control of Earth and Rockfill for Oroville Dam, Bernard B. Gordon and Robert K. Miller, SM3:May 66:1:4822

Design of Karadj Arch Dam, Jan A. Veltrop and Roman P. Wengler, PO1:Mar 64:1:3827

TR:131:213

Designing Specifications--A Challenge, Edward A. Abdun-Nur, COI:May 65:29:4315

TR:131:604

Extending CPM for Multiform Project Time-Cost Curves, Walter L. Meyer and Louis R. Shaffer, COI:May 65:45:4319

TR:131:491

Grouting a Dam Cutoff in Cavernous Limestone, Leland F. Grant and John S. Winefordner, CO3:Sep 66:1:4894

Grouting Manmade Islands--Chesapeake Bay Bridge, Byron J. Prugh, COI:Jan 66:37:4621

How Contractors Organize Their Cost Estimating and Control: Report by the Subcommittee on Organization of Estimating Departments, of the Committee on Estimating and Cost Control, ASCE, Elsie Eaves, Chmn, COI:Jan 66:53:4631  
How to Improve Quality Control of Construction, Hal W. Hunt, CE:Oct 65:54

TR:131:698

Improved Inspection on the West Coast, John Steinbrugge, CE:Oct 65:79

TR:131:613

Installation Procedure for Hot Metal Facility, L. Earl Tabler, Jr., COI:May 65:179:4341

TR:131:7

Machine Tunneling on Missouri River Dams, Lloyd B. Underwood, COI:May 65:1:4314

TR:131:780

Materials Control and Test Procedures, Robert F. Baker, CO3:Sep 66:17:4896

Mathematical Method for Blending Aggregates, Donald L. Neumann, CO2:Sep 64:1:4026

TR:131:64

New Type Weir Construction for Small Water-sheds, Neal E. Minshall and Ralph G. Spomer, IR1:Mar 65:11:4243

TR:131:189

Penstock Codes--U.S. and Foreign Practice, Andrew Eberhardt, PO2:Apr 66:137:4752

Philosophy of Service Life in Culvert Design, Lester A. Herr, HW1:Mar 66:1:4705

Planning Construction of Four-River Basin Project, Edwin W. Eden, Jr., IR3:Sept 66:1:4897

Preloading Results in Tank Foundation Economies, Louis J. Goodman and Norbert E. Faltyn, COI:May 65:125:4335

TR:131:843

Product Control and Incentives, Edward A. Abdun-Nur, CO3:Sept 66:25:4900

Quality Control in Construction, W.O. Hiltabidle, Jr., Bradford N. Clark, Charles E. Schaffner, John Nelson Linn, Ralph E. De Simone, Arnold H. Vollmer, Elmer B. Isaak, Leslie D. Long, Richard Q. Praeger, Hal W. Hunt, COI:May 65:141:4340

TR:131:660

Quality Control of Asphalt Pavement, Charles R. Foster, CO3:Sept 66:41:4902

Quality Controls for Steel Construction, Milton Brumer CE:Oct 65:76

TR:131:608

Rock Trap Experience in Unlined Tunnels, John J. Mattinoe, E. Roy Tinney, and W. Weston Wolcott, PO3:Oct 64:29:4067

TR:131:33

Rockfill Design-Carters Dam, Fred A. Roberson and Robert L. Crisp, Jr., CO3:Sept 66:51:4906

Siting of Manned Lunar Launch Facilities, Arthur G. Porcher, AT1:Jan 66:143:4630

Stability of Fresh Concrete Mixes, Alistair G.B. Ritchie, COI:Jan 66:17:4610

**CONSTRUCTION Continued**

A Training Program for Public Works Inspectors, Alfred R. Pagan, CE:May 66:52

Unlined Tunnels of the Snowy Mountain Hydro-Electric Authority, Australia, H.E. Dann, W.P. Hartwig, and J.R. Hunter, PO3:Oct 64:47:4071

TR:131:17

Unlined Tunnels of the Southern California Edison Company, Ralph W. Spencer, Bruce R. Lavery, and Dean A. Barber, PO3:Oct 64:105:4087

TR:131:73

Verrazano-Narrows Bridge: Fabrication and Construction of Superstructure, John W. Kinney, Herbert Rothman, and Frank Stahl, CO2:Mar 66:119:4745

Worlds of Two Giants, Paul M. Wright, PP2:Dec 66:1:4997

**CONSTRUCTION EQUIPMENT**

Alabama--Paddle Wheels for Traction in a Swamp, CE:Dec 65:71

TR:131:691

Asphalt and Scenery on New York State's Northway, CE:Aug 66:46

Efficient Earth Moving--Job Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44

Highway Equipment--Wheelbarrow to Slip-Form Paver, PCA 50th Anniversary Symposium, CE:Mar 66:32

Dsc, E.M.T. Ryder, CE:Aug 66:73; Dsc,

and reply, Alfred R. Golze, CE:Aug 66:73

Large Army contract for rubber-tired tractor dozers, CE:July 66:85

Mammoth Machines Reduce Clearing Costs, J.W. Shumate, CE:Apr 66:48

Moving 165 Million Tons for World's Highest Compacted Fill--Oroville Dam, R. C. McDowell, CE:Apr 66:26

**CONSTRUCTION INDUSTRY**

Dsc, G. W. Theriault, CE:Mar 66:86 on regard for engineering quality normal in construction industry

The Engineer in Charge of Construction, Louis W. Petulla, CE:Oct 66:48

How to Inspect Construction, Benjamin P. Cohen, CE:Oct 65:62

TR:131:591

Lyman Wilbur honored by Engineering News-Record, CE:Mar 66:106

Relative Prices around the World, CE:July 66:46

Turning Engineers into Construction Men, Henry A. Letoile, CE:Apr 66:42

Dsc, Van Rennselaer P. Saxe, CE:June 66:79

University of Florida sponsors Conference on Earthmoving, CE:May 66:96

Value Engineering in Construction, A. J. Dell'Isola, CE:Sept 66:58

**CONSTRUCTION MATERIALS**

Designing Specifications--A Challenge, Edward A. Abdun-Nur, CO1:May 65:29:4315

TR:131:604

Education in Materials for Civil Engineers, Frederick J. McGarry, CE:June 66:73

Fiberglass-Reinforced Plastics as Materials

for Construction, Richard E. Chambers, CE:

June 66:62

**CONSTRUCTION VOLUME**

Consulting Engineers Council predicts record year for construction, CE:Mar 66:105

Florida--Current construction boom in Miami, CE:Sept 66:99

**CONSULTANTS**

The American Consulting Engineer Abroad, Edward J. Quirin, CE:Mar 65:45; Apr 65:54; May 65:60

TR:131:161

Boston architects affiliate with New York engineering firm, CE:Mar 66:104

Computer-Aided Land Surveying, J. H. Millett, J. W. King and H. J. Ridinger, CE:Oct 66:58

Computer Selection: A New Role for the Civil Engineer, M. D. Sinkoff, CE:Jan 66:58

Construction consultants retained for Albany Mall Project, CE:July 66:84

Consulting Engineers Council elects 1966-

1967 officers, CE:Mar 66:107

Consulting Engineers Council holds tenth

anniversary convention, CE:July 66:86

Consulting Engineers Council predicts record year for construction, CE:Mar 66:105

A Consulting Firm Competes for June Graduates, William J. Mulder, Jr., CE:Aug 66:38

Consulting Practice in Surveying, William B. Wright, CE:Apr 66:61

An Engineering Firm Says It Can Prepare Specifications in Half the Time, CE:Jan 66:56

A New look at Engineering Reports, Robert W. Richards, CE:Oct 66:52

New York--Consultant-contractor chosen for World Trade Center, CE:Apr 66:81

Reports Production--HNT&B Style, Patrick J. Schuler, CE:Oct 66:54

Starting Your Own Consulting Practice--Business and Finance, Joseph S. Ward, CE:Jan 65:53

TR:131:61

Third Institute for International Engineering sponsored by the Consulting Engineers Council

and U.S. Dept. of Commerce, CE:Nov 66:80

**CONTRACTS**

The American Consulting Engineer Abroad, Edward J. Quirin, CE:Mar 65:45; Apr 65:54;

May 65:60

TR:131:161

ASCE-AGC suggested form of contract, 1966 edition, CE:Jan 66:80

Better Specifications--A Vital Need (The Younger Viewpoint) Michael Riddiford, CE:Mar 66:96

Changed Conditions Clause in Construction Contracts, Robert F. Borg, CO2:Sep 64:37:4035

TR:131:118

**CONTRACTS Continued**

Contract Award Practices, Hal W. Hunt, Douglas H. Logan, Roger H. Corbetta, A. Holmes Crimmins, Robert P. Bayard, Edward Lore, and Samuel A. Bogen, CO1:Jan 66:1:4604

Engineers and the Practice of Law, Fred

Vendig, CE:Oct 66:56

Foreign Contracts--Subject to the Approval of AID, Julius Kaplan, CE:Mar 66:62

Dsc, Chester L. Lucas, CE:June 66:78

General Electric stops turnkey contracting for commercial nuclear power plants, CE:Aug 66:97

Legal Aspects of Quality Control, Robert B.

Jarvis, CE:Oct 65:71

TR:131:600

Worlds of Two Giants, Paul M. Wright, PP2:

Dec 66:1:4997

**CORROSION**

International Congress on Prestressed Concrete Presents Challenges to American Engineers, Ben C. Gerwick, Jr., CE:Oct 66:62

Operating a Sea Water Barrier Project, Arthur

E. Bruington and Frederick D. Seares, IR1:

Mar 65:117:4264

TR:131:636

Philosophy of Service Life in Culvert Design,

Lester A. Herr, HW1:Mar 66:1:4705

Pipeline Corrosion Stopped by Zinc Anodes,

T. M. Heitman, CE:Oct 66:50

Plastic Cable Covering Introduced on Cali-

fornia Suspension Bridge, Jackson L. Durkee

and George B. Shaw, Jr., CE:Feb 66:63

Suspender Ropes for George Washington Bridge

Pass Rigid Test but Need Maintenance, Irvine P.

Gould and Henry A. Druding, CE:July 66:52

Understanding and Controlling Corrosion,

Harry Neugold, Jr., CE:Mar 65:57

Dsc: R. E. Bald, CE:May 65:74

TR:131:239

Understanding the Corrosion Resistance of

Concrete Pipe, John A. Shaw, CE:Jun 65:39

TR:131:396

Unpainted Steel for Permanent Structures, R.

B. Madison, CE:Feb 66:68

**COSTA RICA**

Seismic Study of Arch Dams, J. Laginha

Serafim and J. Oliveira Pedro, ST2:Apr 65:

15:4284

TR:131:590

**COSTS**

Automated Optimum Cost Building Design,

Louis A. Hill, Jr., ST6:Dec 66:247:5013

Composite Design Cuts Cost of Small Ware-

house, Edward B. Finkel, CE:Aug 65:46

TR:131:469

Cost and Economics of Maintenance of Turbine

Runner Cavitation, Harold G. Hunt, PO1:Jan 66:

107:4634

Effect of Irrigation Method on Water Conser-

vation, Jack Keller, IR2:Jun 65:61:4364

TR:131:834

Graphical Method for Discounting Future Bene-

fits in Feasibility Studies, George E. Ribble,

CE:Nov 65:86

TR:131:662

Higher steel prices set by Bethlehem Steel

Corporation, CE:Feb 66:90

How Contractors Organize Their Cost Estimat-

ing and Control: Report by the Subcommittee on

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Committee on Estimating and Cost Control,

ASCE, Elsie Eaves, Chmn, CO1:Jan 66:53:4631

Interpretation of Costs, Matthew J. Betz,

HW2:Oct 66:49:4937

Latest Developments in Transporting Coal by

Rail, Richard N. Bergstrom and Kenneth W.

Hamming, PO1:May 65:81:4338

TR:131:681

Operating a Sea Water Barrier Project, Arthur

E. Bruington and Frederick D. Seares, IR1:

Mar 65:117:4264

TR:131:636

Optimum Size Seaport, Carl H. Plumlee,

WW3:Aug 66:1:4880

Perspective on Water Desalting, Milton S.

Sachs, CE:Nov 66:66

Philosophy of Service Life in Culvert Design,

Lester A. Herr, HW1:Mar 66:1:4705

Poorly Composed Specifications Cost Money,

C. Vaughn Rotz, CE:Jan 66:63

Dsc, Robert F. Legget, CE:June 66:79

Relative Prices around the World, CE:July

66:46

Reports-Production--HNT&B Style, Patrick

J. Schuler, CE:Oct 66:54

Sensitivity Analysis of Activated Sludge

Economics, Bernard C. McBeath and Rolf

Eliassen, SA2:Apr 66:147:4803

Social and Economic Factors in Highway Loca-

tion, E. Wilson Campbell, HW2:Oct 66:35:4926

**CRANES**

New York's Tallest Concrete-Frame Apart-

ment Building--Design and Construction,

William E. November, with Robert Rosenwasser,

CE:Sept 66:66

Corr, B. R. Wellek, CE:Nov 66:78

**CRITICAL PATH METHOD**

CMP--As Complete Project Management,

Burl W. Howard, CO1:May 65:99:4324

TR:131:628

Colorado--Denver's Metro Waste Treatment

Plant, William L. Bredar, CE:Dec 65:64

TR:131:687

Extending CPM for Multiform Project Time-

Cost Curves, Walter L. Meyer and Louis R.

Shaffer, CO1:May 65:45:4319

TR:131:491

Indiana--CPM used for Anheuser-Busch Ex-

pansion, CE:Apr 66:80

Installation Procedure for Hot Metal Facility,

L. Earl Tabler, Jr., CO1:May 65:179:4341

TR:131:7

Surveying and Mapping Aspects, Storm Tide

Protection, George M. Mayfield, SU1:Jan 66:

1:4599

**CULVERTS**

- Colorado--70-ft Underpasses of Corrugated Steel Pipe for Broadmoor Hotel, Colorado Springs, Nick Pinello, CE:Nov 65:84  
 TR:131:638
- Flow in Culverts and Related Design Philosophies, Fred W. Blaisdell, HY2:Mar 66:19:4704
- Hydraulic Efficiency in Culvert Design, Fred W. Blaisdell, HW1:Mar 66:11:4709
- Philosophy of Culvert Design, R. Robinson Rowe, HW1:Mar 66:71:4732
- Philosophy of Service Life in Culvert Design, Lester A. Herr, HW1:Mar 66:1:4705
- Use of Baffles in Open Channel Expansions, Clifford D. Smith and James N. G. Yu, HY2:Mar 66:1:4703

**CYLINDERS**

- Nonregular Progression in Strain Hardening Shells, Bertram J. Thorn, Jao-Shiun Kao, and Seng-Lip Lee, EMI:Feb 66:59:4658

**DAMAGE**

- Field Observations of Structures Damaged by Settlement, Donald McKinley, SM5:Sep 64:249:4054  
 TR:131:316
- Hurricane Betsy in South Florida, Herbert S. Saffir, CE:Aug 66:49
- Putting a Movable Bridge Span Back in Swing, Remy P. Papp, CE:July 66:36
- South Carolina--Second Cooper River Bridge damaged by fire, CE:Feb 66:89

**DAMPING RESPONSE**

- Aseismic Design of Multistory Systems, E. F. Kokinopoulos, ST3:Jun 66:77:4842

**DAMS**

- Arkansas--Low bid for Arkansas River dam near Fort Smith, CE:Apr 66:81
- Barkley Dam and Lock are dedicated, CE:Oct 66:92
- California--California Water Project, Power Plans and Demands, Alfred R. Golze, CE:Feb 65:35  
 TR:131:100
- California--Groundbreaking for New Melones Dam, CE:Dec 66:84
- California--Milestone reached in Oroville Dam, CE:Dec 66:84
- California's State Water Project on Schedule, Haywood G. Dewey, Jr., CE:Jan 66:48
- Dsc, Howard D. Greyber, CE:May 66:76;
- Author's reply, CE:May 66:76
- Canada--Hydro Development of the Manicouagan and Outardes Rivers in Quebec, Benoit Baribeau, CE:Dec 65:53  
 TR:131:744
- Canada--Manitoba to build Kettle Rapids Dam, CE:May 66:91
- Colorado--Ruedi Dam diversion tunnel completed, CE:Apr 66:81
- Colorado--USBR starts work on Silver Jack Dam, CE:Nov 66:98
- Contract for dam on Cross-Florida canal, CE:May 66:94

- Epoxy Replaces Steel Armor at Discharge Control Gates, John C. Rowland, CE:July 66:64
- First International Congress on Rock Mechanics, Jacob Feld, CE:Dec 66:58
- France--Rance River tidal dam finished, CE:May 66:91
- Ghana--Akosombo dam dedicated, CE:Apr 66:79
- Grouting a Dam Cutoff in Cavernous Limestone, Leland F. Grant and John S. Winefordner, CO3:Sept 66:1:4894
- Hong Kong--Unique water-supply project, CE:Mar 66:103
- Hydropower Developments in India, Asit K. Biswas, PO2:Apr 66:31:4777
- Inland Delta Building Activity of Kosi River, Chintaman V. Gole and Shrikrishna V. Chitale, HY2:Mar 66:11:1:4722
- Iran--Two large dams for hydroelectric and irrigation developments planned, CE:Aug 66:98
- Irrigation in India: Past and Present, Asit K. Biswas, IR1:Mar 65:179:4277  
 TR:131:523
- Kaweah River Water Rights Settlement by Purchase, Stanley M. Barnes, IR1:Mar 66:55:4729
- The Lewis Smith Rockfill Dam, James A. Tyson, PO1:Jan 66:81:4633
- Machine Tunneling on Missouri River Dams, Lloyd B. Underwood, CO1:May 65:1:4314  
 TR:131:780
- Mexico--Construction of Amistad Dam on Rio Grande on schedule, CE:Dec 66:81
- Montana--First power produced at Yellowstone Dam, CE:Sept 66:100
- Moving 185 Million Tons for World's Highest Compacted Fill--Oroville Dam, R.C. McDowell, CE:Apr 66:26
- Dsc, E. M. T. Ryder, CE:Aug 66:73; Dsc & reply, Alfred R. Golze, CE:Aug 66:73
- North Carolina--Controlling Leakage from Cowans Ford Dam, Joe T. Moore, CE:Jun 65:52  
 TR:131:357
- Oregon--Contract awarded for Blue River Dam, CE:Feb 66:92
- Revised Bibliography on Chemical Groutings; Third Progress Report of the Committee on Grouting, Soil Mechanics and Foundations Division, ASCE, W. K. Seaman, Chmn., SM6:Nov 66:39:4969
- Rhode Island--Hurricane barrier to protect Providence, CE:Mar 66:103
- Rockfill Design--Carters Dam, Fred A. Roberson and Robert L. Crisp, Jr., CO3:Sept 66:51:4906
- Russia--Record dynamite blast aids dam building, CE:Dec 66:81
- Spillway Discharge Coefficients for Rock Island Dam, Claud C. Lomax, HY3:May 65:19:4320  
 TR:131:539
- Steady-State Theories for Drainage, Don Kirkham, IR1:Mar 66:19:4707
- Supervision of Dams by State Authorities, T. W. Mermel, CE:Aug 66:50
- Tennessee--Nickajack Dam, a Replacement for Hales Bar, Floyd P. Lacy, Jr., and Ward W. Engle, CE:Jul 65:50  
 TR:131:391

**DAMS Continued**

- Tennessee-TVA to build dam on the Elk River, CE:Jan 66:94  
 Texas--Livingston Dam planned for Houston water supply, CE:Apr 66:82  
 Three dams approved for western Colorado, CE:May 66:96  
 TVA begins work on Tims Ford dam, CE:May 66:92  
 Washington--High Mountain Sheep Dam still disputed, CE:Jan 66:94  
 Washington--Mossyrock Dam takes shape on Cowlitz River, CE:Sept 66:101  
 Water Pressure on Dams Subjected to Earthquakes, Jorge I. Bustamante and Armando Flores, EM5:Oct 66:115:4954  
 West Pakistan--Water-filled balloons control flow on Mangla Dam project, CE:Feb 66:92

**DATA PROCESSING**

- Processing Streamflow Data: Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F. J. Flynn, Chmn, HY2:Mar 66:145:4725

**DATA SYSTEMS**

- Data Handling Systems in Water Pollution Control, Richard S. Green, Donald P. Dubois, and Clarence W. Tutwiller, SA1:Feb 66:55:4652

**DEFLECTION**

- Behavior of a Soil Mass Under Dynamic Loading, R. W. Sparrow and A. C. Tory, SM3:May 66:59:4825  
 Building Design Using Linear Programming, Moshe F. Rubinstein and John Karagozian, ST6:Dec 66:223:5012  
 Collapse Loads for Circular-Arc Beams, Neil Jackson, ST5:Oct 66:1:4925  
 Conjugate Analogy of Space Structures, Zdeněk P. Bazant, ST3:Jun 66:137:4849  
 Deflections of Multiple-Panel Reinforced Concrete Floor Slabs, Mortimer D. Vanderbilt, Mete A. Sozen, and Chester P. Siess, ST4:Aug 65:77:4439  
 TR:131:769  
 Elastic, Large Deflections of Annular Membranes, Archibald N. Sherbourne and William C. Lennox, EM2:Apr 66:75:4775  
 Initial Imperfections in Biaxial Bending, Charles G. Culver, ST3:Jun 66:119:4846  
 Large Deflection of Heated Plates, Marion W. Wilcox and Lewis E. Clemmer, EM6:Dec 64:165:4176  
 TR:131:181  
 Nonlinear Solution for Folded Plate Structures, Larry E. Farmer and John E. Breen, ST2:Apr 66:229:4786  
 Shakedown Analysis of Some Typical One-Story Bents, Egor P. Popov and Eric Becker, ST5:Oct 64:1:4069  
 TR:131:186  
 Structural Analysis of the Haystack Antenna, William R. Fanning, ST1:Feb 66:431:4698  
 Theoretical Analysis of Suspension Bridges, Saafan A. Saafan, ST4:Aug 66:1:4885

- Tilt and Deflections of Tapered Polygonal Towers, Ralph J. Pschunder, ST3:Jun 65:151:4373  
 TR:131:143

**DEFORMATION**

- Bracing Requirements for Inelastic Steel Beams, Maxwell G. Lay and Theodore V. Galambos, ST2:Apr 66:207:4785  
 Complementary Energy Method for Finite Deformations, Charles Libove, EM6:Dec 64:49:4164  
 TR:131:414  
 Dynamic Deformations of Circular Membranes, Donald E. Boyd, EM3:Jun 66:1:4844  
 Dynamic Response of a Floating Rigid-Plastic Box, Rene B. Testa and Hans H. Bleich, EM2:Apr 66:131:4783  
 Elastic Loading of High Pressure Cylinders, Raymond Epain and Boris Vodar, EM5:Oct 64:363:4108  
 TR:131:775  
 Exact Solution of the Biaxial Bending Equations, Charles G. Culver, ST2:Apr 66:63:4772  
 Large Strain Analysis and Stresses in Linear Materials, August J. Durelli and Alfred P. Mulzet, EM3:Jun 65:65:4367  
 TR:131:139  
 Measuring Instruments for Strutted Excavating, Lauritis Bjerrum, T. Cameron Kenney, and B. Kjaernli, SM1:Jan 65:111:4210  
 TR:131:568  
 Studies of the Ductility of Steel Structures, Theodore V. Galambos and Maxwell G. Lay, ST4:Aug 65:125:4444  
 TR:131:812

**DELTA**

- Inland Delta Building Activity of Kosi River, Chintaman V. Gole and Shrikrishna V. Chitale, HY2:Mar 66:111:4722

**DENSITY**

- Flow Measurement Techniques for Hydraulic Dredges, Ernest P. Fortino, WW1:Feb 66:109:4683  
 Nominal Diameter of Floc Related to Oxygen Transfer, James A. Mueller, Karl G. Voelkel, and William C. Boyle, SA2:Apr 66:9:4756  
 Single-Port Suction Manifolds, Ronald E. Nece, Peter P. Goldstern, and Jared L. Black, HY1:Jan 66:43:4620  
 What Happens When Metropolitan Areas Meet?, Alan M. Voorhees, UP1:May 66:13:4811

**DESALTING**

- California--Largest desalting plant planned, CE:Nov 66:98  
 Dsc, John P. Lawler, CE:Oct 66:67 on "Do You Know That" item about salt-water barriers, CE:July 66:33  
 Kuwait--Contract for desalting equipment, CE:May 66:94  
 Partial Demineralization of Brackish Waters, Robert L. Sanks and Warren J. Kaufman, SA6:Dec 66:57:5037

**DESALTING Continued**

- Perspective on Water Desalting, Milton S. Sachs, CE:Nov 66:66  
 Transitory Irrigation Developments, Raymond A. Hill, CE:Mar 65:56  
 Dsc: Charles Green, CE:Jun 65:72, author's reply, CE:Jun 65:72  
 TR:131:211

**DESIGN**

- Automated Optimum Cost Building Design, Louis A. Hill, Jr., ST6:Dec 66:247:5013  
 AUTOSPEC: Automated Preparation of Specifications, G. Neil Harper, ST6:Dec 66:45:5002  
 California--Feasibility study of second deck for Golden Gate Bridge, CE:Feb 66:90  
 Cement-Treated Subbase Practice in U.S. and Canada, Edward L. Kawala, HW2:Oct 66:75:4947  
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 Computer-Aided Bridge Design, Gerald M. Sturman, Leland C. Albertson, Jr., C. Allin Cornell, and Jose M. Roesset, ST6:Dec 66:141:5007  
 Computer Analysis of Underground Frames, Albert M. Lount and W. R. Smyth, ST6:Dec 66:93:5005  
 Computer Design of a Tower and Cable System, R. A. Williamson, H. F. Stevenson, and P. W. Van der Pas, ST6:Dec 66:341:5017  
 Computers and the Design of The World Trade Center, Richard E. Taylor, ST6:Dec 66:75:5004  
 Continuous-Composite All-Welded Bridges, Martin C. Rissel with Arthur H. Redman and Theodore H. Karasopoulos, CE:Dec 66:42  
 Creative Highway Design, Robert W. Sweet, CE:Dec 66:36  
 Design of Anaerobic Digestion Systems, Raymond C. Loehr, SA1:Feb 66:19:4648  
 Design of Base Plates and Anchor Bolts with Simple Assumptions, Herman Solfer, CE:Apr 66:63  
 Design of Desilting Works for Irrigation Systems, Floyd E. Dominy, IR4:Dec 66:1:4998  
 "Design of Foundations for Control Settlements" 1964 conference papers available, CE:Nov 66:81  
 Designing Wood Structures for Durability, Elton F. Jones, CE:July 66:44  
 Dsc, Robert E. Mills, Sr., CE:Nov 66:77  
 Direct Design of Framed Structures, John F. Brothie, ST6:Dec 64:243:4182  
 TR:131:37  
 Distribution System Equalizing Storage Hydraulics, M. B. McPherson and R. Prasad, HY6:Nov 66:151:4987  
 Dsc, Harry R. Powell, CE:Aug 66:74 on need for beautiful highway bridges designed by engineers  
 Dsc, Homer M. Hadley, CE:Nov 66:77  
 Economic Problem of Irrigation Canals: Seepage Losses, Alfredo Bandini, IR4:Dec 66:35:5034  
 An Engineering Firm Says It Can Prepare Specifications in Half the Time, CE:Jan 66:56

- Evaluation of Two Aerated Lagoons, Ross E. McKinney and Henry H. Benjes, Jr., SA6:Dec 65:43:4589  
 TR:131:842  
 Hurricane-Resistant Plywood Construction, J. M. Carney, CE:June 66:57  
 Influence Lines for Beams on Elastic Foundations, K. T. Sundara Raja Iyengar and S. Anantharamu, ST3:Jun 65:45:4359  
 TR:131:643  
 Interprofessional Relationships in Environmental Design, John G. Duba, CE:Feb 66:49  
 Longitudinal Stiffeners for Compression Members, Maurice L. Sharp, ST5:Oct 66:187:4948  
 Maine--Twin spans to carry Interstate 95 over Penobscot River, CE:Dec 66:84  
 New Shapes for Arch Dams, J. Laginha Serafim, CE:Nov 66:38  
 Optimum Design--Minimum Weight Versus Fully Stressed, Thomas P. Kicher, ST6:Dec 66:265:5014  
 Optimum Design of Mixed Steel Composite Girders, George G. Goble and Philip V. DeSantis, ST6:Dec 66:25:5001  
 Philosophy of Culvert Design, R. Robinson Rowe, HW1:Mar 66:71:4732  
 Proceedings of lectures on Design and Construction of Earth Structures now available, CE:Dec 66:78  
 Shear Effects in Design of Guyed Towers, Robert A. Williamson and M. N. Margolin, ST5:Oct 66:213:4951  
 Snowshed Location and Design, Peter A. Schaefer, HW2:Oct 66:21:4923  
 Thailand--Consulting engineers chosen for sewage works in Bangkok, CE:Nov 66:99  
 Value Engineering in Construction, A. J. Dell'Isola, CE:Sept 66:58  
 Verrazano-Narrows Bridge: Conception of Design and Construction Procedure, Othmar H. Ammann, CO2:Mar 66:5:4741  
 Verrazano-Narrows Bridge: Design of Superstructure, Milton Brumer, Herbert Rothman, Michael Flegen, and Benjamin Forsyth, CO2:Mar 66:23:4742  
 Verrazano-Narrows Bridge: Design of Tower Foundations and Anchorages, Leo H. Just, Ira G. Levy, and Vladimir Obricjan, CO2:Mar 66:71:4743  
 Washington--Seattle's preliminary plans for rapid-transit line, CE:Mar 66:103
- DIGESTION**  
 Effects of CO<sub>2</sub> and N<sub>2</sub> on Anaerobic Digestion, Kenneth E. Hartz and R. Rupert Kountz, SA2:Apr 66:83:4771
- DIKES**  
 Development of Ground Water in Hawaii, Leslie J. Watson, HY6:Nov 64:185:4144  
 TR:131:401  
 Effect of Spur Dikes on Flow Through Contractions, E. Robert Hedman, HY4:Jul 65:155:4412  
 TR:131:722



**DIKES Continued**

- Foreshore Protection, Lower Mississippi River, Rudolf Hertzberg, WW2:May 65:1:4305  
 TR:131:573  
 Influence of Soil Types on Stabilization of the Savannah River, William J. Wall, WW3:Aug 65:7:4430  
 TR:131:717  
 Movable Bed Model for River Structure Design, Howard E. Christian, Warren J. Mellema, and Walter M. Cinder, WW3:Aug 66:45:4883

**DIMENSIONAL ANALYSIS**

- Heat Analysis - A Tensorial-Dimensional Approach, Sidney F. Borg, EM6:Dec 65:145:4584  
 TR:131:825

**DISPERSIONS**

- Canal Discharge Measurements with Radioisotopes, Jack C. Schuster, HY2:Mar 65:101:4258  
 TR:131:359  
 Deep Well Waste Injection--Reaction with Aquifer Water, Don L. Warner, SA4:Aug 66:45:4881  
 Dispersion and Adsorption in Porous Media Flow, Robert B. Banks, and Iqbal Ali, HY5:Sep 64:13:4002  
 TR:131:690  
 Dispersion Measurement in Open Channels, Calvin C. Patterson and Earnest F. Gloyna, SA3:Jun 65:17:4347  
 TR:131:46  
 Experiments on Lateral Dispersion in Porous Media, Wen-Hsiung Li and Fu-Hsiung Lai, HY6:Nov 66:141:4986  
 Numerical Solution to a Dispersion Equation, Nobuhiro Yotsukura and Myron B. Fiering, HY5:Sep 64:83:4046  
 TR:131:444  
 Wind Driven Water Currents, W. Douglas Baines and Douglas J. Knapp, HY2:Mar 65:205:4270  
 TR:131:788

**DOCKS**

- Barge Docks for Inland Waterways, William L. Horstman, WW4:Nov 64:99:4146  
 TR:131:703  
 Chile--Seabees Give Technical Assistance in Chile, Leroy D. Lawson, CE:Feb 65:47  
 TR:131:110  
 Improved facilities for Newport News Shipbuilding Co., CE:May 66:92  
 Offshore Tanker Terminal in Greece, D. L. Poppy, CE:Mar 66:59

**DOMES**

- Membrane Forces and Buckling in Reticulated Shells, Douglas T. Wright, ST1:Feb 65:173:4227  
 TR:131:279  
 New York--Unique dome houses skating rink and swimming pool, CE:Aug 66:94

- Texas--Unusual Dome Awaits Baseball Season in Houston, Louis O. Bass, CE:Jan 65:63  
 Dsc: R. S. DiSalvo, CE:Mar 65:64  
 TR:131:47

- Wind Loads on Basic Dome Shapes, F. J. Maher, ST3:Jun 65:219:4383  
 TR:131:103

- Wind Loads on Dome-Cylinder and Dome-Cone Shapes, F. J. Maher, ST5:Oct 66:79:4933

**DRAINAGE**

- American Society of Agricultural Engineers and ASCE co-sponsor conference on drainage, CE:Feb 66:78  
 Areal Variations of Mean Annual Runoff, Allen G. Hely, HY5:Sep 64:61:4030  
 TR:131:41  
 Drainage Characteristics of Digested Sludge, Jimmie E. Quon and Glenn M. Johnson, SA2:Apr 66:67:4762  
 Eliminating Waterlogging Caused by Canal Seepage, Abdel-wahab M. Amer, IR2:Jun 66:33:4840  
 Evaluation of Pipe Elbows as Flow Meters, John A. Replogle, Lloyd E. Myers, and Kenneth J. Brust, IR3:Sept 66:17:4888  
 Flow from Infiltration Basins to Drains and Wells, Jacob Bear and Carol Braester, HY5:Sept 66:115:4911  
 Forest Drainage Research in the Coastal Plain, Ralph A. Klawitter and Cortland E. Young, Jr., IR3:Sep 65:1:4456  
 TR:131:736  
 Highway Plans from Photogrammetrically-Compiled Maps, Lewis E. Parker, SU1:Apr 64:31:3859  
 TR:131:364  
 Inflow Hydrographs from Large Unconfined Aquifers, Hassan Ali Ibrahim and Wilfried Brutsaert, IR2:Jun 65:21:4357  
 TR:131:864  
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 TR:131:408  
 Las Vegas to host Irrigation and Drainage Div. Conference, Nov. 2-4, CE:Sept 66:86  
 Nonlinear Differential Equation of Drain Spacing, William T. Moody, IR2:Jun 66:1:4835  
 One-Dimensional Infiltration into Homogeneous Soil, Yu-Si Fok and Vaughn E. Hansen, IR3:Sept 66:35:4912  
 Phreatophytes--Water Use and Potential Water Savings, Dean C. Muckel, IR4:Dec 66:27:5033  
 Planning Construction of Four-River Basin Project, Edwin W. Eden, Jr., IR3:Sept 66:1:4897  
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 Properties of Porous Media Affecting Fluid Flow, R.H. Brooks and A.T. Corey, IR2:Jun 66:61:4855  
 Reassessing an Old Problem--Acid Mine Drainage, Ralph Forges, Lowell A. Van Den Berg, and Dwight Ballinger, SA1:Feb 66:69:4654

**DRAINAGE Continued**

Regional Drought Frequency Analysis, William Whipple, Jr., IR2:Jun 66:11:4837

Rice Irrigation, Lee Chow, IR3:Sept 65:35:4472  
TR:131:724

Sample Size Estimates in Permeability Studies, Lyman S. Willardson and Rex L. Hurst, IR1:Mar 65:1:4240  
TR:131:777

Steady-State Theories for Drainage, Don Kirkham, IR1:Mar 66:19:4707

Texas--Houston Airport, a Study in Engineer-Contractor Harmony, H.O. Fischer, CE:Sep 65:32

TR:131:553  
Tile Drainage Performance, Coachella Valley, California, Arthur F. Pillsbury, J.R. Spencer, William R. Johnston, and L.O. Weeks, IR2:Jun 65:1:4344  
TR:131:9

Time in Urban Hydrology, Gene E. Willeke, HY1:Jan 66:13:4615

Two-Dimensional Infiltration and Wetting Fronts, Sadik Toksoz, Don Kirkham, and E. Robert Baumann, IR3:Sep 65:65:4477  
TR:131:514

Vertical Drainage of an Unsaturated Soil, Irwin Remson, Ronald L. Drake, Samuel S. McNeary, and Edward M. Wallo, HY1:Jan 65:55:4196  
TR:131:223

Waste Water Disposal: San Joaquin Valley, California, Elmo W. Huffman, IR2:Jun 66:47:4847

**DRAINS**

Eliminating Waterlogging Caused by Canal Seepage, Abdel-wahab M. Amer, IR2:Jun 66:33:4840

Flow from Infiltration Basins to Drains and Wells, Jacob Bear and Carol Braester, HY5:Sept 66:115:4911

Nonlinear Differential Equation of Drain Spacing, William T. Moody, IR2:Jun 66:1:4835

Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Brandley and W. H. Jervis, CE:Aug 66:58

Steady-State Theories for Drainage, Don Kirkham, IR1:Mar 66:19:4707

**DRAWINGS**

Scribing Method Improves Maryland Road Mapping, CE:Apr 66:56

**DREDGING**

Flow Measurement Techniques for Hydraulic Dredges, Ernest P. Fortino, WW1:Feb 66:199:4683

**DRILLING**

Augered-in Concrete Piles Support Boeing Aerospace Activities, Norman L. Liver, CE:Oct 66:60

**DROUGHTS**

Regional Drought Frequency Analysis, William Whipple, Jr., IR2:Jun 66:11:4837

**DYNAMICS**

Inelastic Response of Beams to Moving Loads, Teoktistos G. Toridis and Robert K. Wen, EM6:Dec 66:43:5028

Vibration Tests of a Nine-Story Steel Frame Building, N. Norby Nielson, EM1:Feb 66:81:4660

**EARTH DAMS**

Control of Earth and Rockfill for Oroville Dam, Bernard B. Gordon and Robert K. Miller, SM3:May 66:1:4822

Earthquake Stress Analysis in Earth Dams, Ray W. Clough and Anil K. Chopra, EM2:Apr 66:197:4793

Efficient Earth Moving--Joy Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44

Greece--A Concrete Cutoff Wall for Earthfill Peneos Dam, Th. C. Gofas, CE:Jun 65:56  
TR:131:529

Ice Core for a Pervious Earth Dam 350 Miles North of Arctic Circle, Robert A. Dudley, with Robert D. Buchanan and Howard Peoples, CE:Dec 66:48

Influence of Modern Construction Equipment on San Luis Dam, Thomas P. Bixby, CE:Nov 66:60

Moving 165 Million Tons for World's Highest Compacted Fill, R. D. McDowell, CE:Apr 66:26

Dsc, E. M. T. Ryder, CE:Aug 66:73; Dsc & reply, Alfred R. Golze, CE:Aug 66:73

A Method for Earthquake Resistant Design of Earth Dams, H. Bolton Seed, SM1:Jan 66:13:4616

Neutral Pressures in Compacted Cohesive Soils, Francisco P. Silva, SM1:Jan 65:105:4624

Seismic Coefficient in Earth Dam Design, H. Bolton Seed and G. R. Martin, SM3:May 66:25:4824

**EARTH PRESSURE**

Earth Pressures for Bilinear Backfill Surface, B. Satyanarayana, SM1:Jan 65:99:4209  
TR:131:295

**EARTHQUAKES**

Alaska--Vertical Forces in Earthquake of March 1964, Harvey P. Pittelko, CE:Dsc: Harold C. Smith, CE:Mar 66:52  
TR:131:49

ASCE and the Structural Engineers Association of Southern California publish paper on Earthquake Safety and Structural Engineering, CE:May 66:46

The BART Trans-Bay Tube, George J. Murphy with Donald N. Tanner, CE:Dec 66:51

Clay Strength Under Earthquake Loading Conditions, H. Bolton Seed and Clarence K. Chan, SM2:Mar 66:53:4723

Comparison of Static and Dynamic Hysteresis, Robert D. Hansen, EM5:Oct 66:87:4949

Earthquake Damping in Building Frames, Charles Machintosh, CE:June 66:70

Earthquake-Induced Displacements in Sand Embankments, R. E. Goodman and H. Bolton Seed, SM2:Mar 66:125:4736



**EARTHQUAKES Continued**

Earthquake Response of a Yielding Structure, Paul C. Jennings, EM4:Aug 65:41:4435

TR:131:453

Earthquake Response of Systems with Bilinear Hysteresis, Spiro S. Thomaides, ST4:Aug 64: 123:4009

TR:131:26

Earthquake simulator ordered by U.S. Bureau of Reclamation, CE:July 66:87

Earthquake Stability of Cohesive Slopes, W. D. Liam Finn, SM1:Jan 66:1:4602

Earthquake Stability of Slopes of Cohesionless Soils, H. Bolton Seed and Richard E. Goodman, SM6:Nov 64:43:4128

TR:131:466

Earthquake Stress Analysis in Earth Dams, Ray W. Clough and Anil K. Chopra, EM2:Apr 66: 197:4793

Liquefaction of Saturated Sands During Cyclic Loading, H. Bolton Seed and Kenneth L. Lee, SM6:Nov 66:105:4972

A Method for Earthquake Resistant Design of Earth Sams, H. Bolton Seed, SM1:Jan 66:13: 4616

Probabilistic Design to Resist Earthquakes, Emilio Rosenbluth, EM5:Oct 64:189:4090

TR:131:112

Random Vibration of a Beam Column, Masanobu Shinozuka and L. Henry, EM5:Oct 65: 123:4510

TR:131:611

Seismic Coefficient in Earth Dam Design, H. Bolton Seed and G. R. Martin, SM3:May 66:25: 4824

Seismic Design of Multistory Systems, E. F. Kokincopoulos, ST3:Jun 66:77:4842

Seismic Study of Arch Dams, J. Langinha Serafim and J. Oliveira Pedro, ST2:Apr 65:15: 4284

TR:131:590

Studies of the Ductility of Steel Structures, Theodore V. Galambos and Maxwell G. Lay, ST4:Aug 65:125:4444

TR:131:812

Tagus River Bridge--Tower Piers, Louis W. Riggs, CE:Feb 66:41

Water Pressure on Dams Subjected to Earthquakes, Jorge I. Bustamante and Armando Flores, EM5:Oct 66:115:4954

**EARTHWORK**

Alabama--Paddle Wheels for Traction in a Swamp, CE:Dec 65:71

TR:131:691

Efficient Earth Moving--Job Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44

Mammoth Machines Reduce Clearing Costs, J. W. Shumate, CE:Apr 66:48

Moving 165 Million Tons for World's Highest Compacted Fill--Oroville Dam, R. C. McDowell, CE:Apr 66:26

Dsc, E. M. T. Ryder, CE:Aug 66:73; Dsc & reply, Alfred R. Golze, CE:Aug 66:73

**ECONOMIC EVALUATIONS**

Economic Analysis of Pumped Storage Projects, Roger D. Ley, PO2:Apr 66:77:4749

Economic Problem of Irrigation Canals: Seepage Losses, Alfredo Bandini, IR4:Dec 66:35:5034

Economics of Composting Municipal Refuse in Europe and Israel, George J. Kupchik, SA6:Dec 66:41:5036

Graphical Method for Discounting Future Benefits in Feasibility Studies, George E. Ribble, CE:Nov 65:86

TR:131:662

Interpretation of Costs, Matthew J. Betz, HW2:Oct 66:49:4937

Sensitivity Analysis of Activated Sludge Economics, Bernard C. McBeath and Rolf Eliassen, SA2:Apr 66:147:4803

Transmission Tower Foundations, Dallas I. Downs and Robert Chieuzzi, PO2:Apr 66:91: 4750

**ECONOMICS**

Alabama--Tennessee-Tombigbee waterway economically justified by Corps of Engineers, CE:Dec 66:81

Computer-Aided Land Surveying, J. H. Millett, J. W. King and H. J. Ridinger, CE:Oct 66:58

Economics of Parking Structures at Airports, Paul H. Stafford, AT1:Jan 66:131:4627

Effect of Floods and Obsolescence on Bridge Life, Manuel A. Benson and N. C. Matalas, HW1:Jan 65:55:4208

TR:131:830

Effect of Irrigation Method on Water Conservation, Jack Keller, IR2:Jun 65:61:4364

TR:131:834

Engineers and the Practice of Law, Fred Vendig, CE:Oct 66:56

Highway Safety Elements in Aesthetic Design, James A. Head, HW2:Oct 66:15:4918

Hydro Project Formulation: Results in the Southeast, Henry C. C. Weinkauff and Clement P. Lindner, PO1:Jan 66:15:4606

Inland Water Transportation in Poland, Fryderyk Tomala, WW1:Feb 65:1:4231

TR:131:875

Maintenance--the Systems Approach, Thomas C. Kavanagh and Sidney M. Johnson, CE:July 66:31

Materials Control and Test Procedures, Robert F. Baker, CO3:Sept 66:17:4896

Partial Demineralization of Brackish Waters, Robert L. Sanks and Warren J. Kaufman, SA6: Dec 66:57:5037

Philosophy of Culvert Design, R. Robinson Rowe, HW1:Mar 66:71:4732

Philosophy of Service Life in Culvert Design, Lester A. Herr, HW1:Mar 66:1:4705

Quest for an Airport in New Jersey--New York Area, John P. Veerling, AT1:Jan 66:21:4607

The Review Function in Water Resources Development, Edmund H. Lang, PO1:Jan 66:39:4622

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

Sensitivity Analysis of Activated Sludge Economics, Bernard C. McBeath and Rolf Eliassen, SA2: Apr 66:147:4803

Value Engineering in Construction, A. J. Dell'Isola, CE:Sept 66:58

## ECONOMICS Continued

Value of Pumped Storage in a Thermal System,  
Wilbur R. Barrows, PO1:Jan 66:29:4619

## EDUCATION

The American Public Works Association to  
prepare courses for solid-waste personnel, CE:  
Aug 66:95

American Society for Engineering Education  
Conference, Washington State Univ., CE:Aug  
66:79

A Cadastral Survey for Emerging Afghanistan,  
Lloyd A. Dove and Neymatullah, CE:Oct 66:41  
The Case of the Missing Curriculum, Kenneth  
S. Curtis, SU2:Jul 64:27:3963

TR:131:700

Civil Engineering in City and Regional Planning,  
Melville C. Branch and L.M.K. Boelter, UP1:  
May 66:53:4827

Civil Engineering in Perspective, George M.  
Sicular, CE:May 66:73

Communication in Engineering Education,  
William H. Wisely, CE:Aug 66:31

Continuing Education, William H. Wisely, CE:  
Feb 65:31

TR:131:92

Dsc, Arthur B. Bronwell, CE:Apr 66:64 on  
education of engineers for management and  
leadership

Dsc, Clarence W. Dunham, on principles for  
civil engineering education, CE:Jan 66:72

Dsc, Helen C. Armstrong, on Kenya's need  
for engineers and books, CE:Feb 66:74

Dsc, Irving Kett, on the education for the  
practicing civil engineer, CE:June 66:78

Dsc, Julian R. Fleming, on the need for  
balanced engineering faculties, CE:June 66:78

Dsc, King Royer, CE:Nov 66:78 on not extend-  
ing formal education beyond the four period

Dsc, Raymond Archibald, CE:July 66:70, on  
giving engineer-in-training status to all  
graduates

Dsc, John V. Wilson, CE:Oct 66:67

Dsc, Robert A. Charpie, CE:July 66:69, on  
finding good teachers for small colleges

Education for Sanitary Engineers, E. Sherman  
Chase, PP2:May 64:15:3894

TR:131:301

Education in Materials for Civil Engineers,  
Frederick J. McGarry, CE:June 66:73

Educational Requirements for Water Resource  
Engineers, Alfred R. Golze, PP2:May 64:7:3890

TR:131:606

Electronic Computation in Engineering Education,  
Harvey R. Fraser and Shu-tien Li, CE:Mar  
66:71

Engineering Education--From the Practition-  
er's Viewpoint, Joseph S. Ward, CE:Feb 65:58

Dsc: M.D. Morris, CE:Apr 65:80; G.P.  
Tschebotarioff, Apr 65:80

TR:131:147

Federal Water Pollution Control Laboratories,  
David H. Howells, SA2:Apr 66:43:4758

Fifth EUSEC Education Conference held in  
Copenhagen, Sept 12-15, CE:Nov 66:79

How Contractors Organize Their Cost Estim-  
ating and Control: Report by the Subcommittee on  
Organization of Estimating Departments, of the  
Committee on Estimating and Cost Control,  
ASCE, Elsie Eaves, Chmn, C01:Jan 66:53:4631  
Improved Inspection on the West Coast, John  
Steinbrugge, CE:Oct 65:79

TR:131:613

Information on goals in engineering education,  
CE:Feb 66:77

Inter-American Program: Past, Present, and  
Future, Frederick J. McGarry and Charles L.  
Miller, PP2:Dec 66:7:5038

International Hydrological Decade Program  
Abroad, Raymond L. Nace, HY4:Jul 66:33:4864  
Management Education and ASCE, condensed  
report of Task Committee on Civil Eng. Manage-  
ment Education, Elmer K. Timby (chairman)  
CE:May 66:64

National Society of Professional Engineers  
publishes survey on continuing education, CE:  
June 66:69

New York--Five nuclear defense design summer  
institutes planned, CE:Feb 66:89

Personnel for Inspection, Robert C. Briggs,  
CE:June 66:56

Ph. D. and P.E. in Civil Engineering  
Education, Ross E. McKinney, CE:Mar 65:48

Dsc: Asit K. Biswas, CE:Jul 65:76

TR:131:219

Preliminary report on goals of engineering  
education available from American Society for  
Engineering Education, CE:Nov 65:103

Dsc, Harry Rubey, CE:Mar 66:86

Professional Schools Granting Professional  
Degrees Needed, H. T. Miller, CE:July 66:61

Dsc, Jared L. Black, CE:Nov 66:77

Recognition as a Profession (The Younger  
Viewpoint) Joseph Gerit, CE:Feb 66:86

Research or Practice--Which Way to Go? (The  
Younger Viewpoint) Joel I. Abrams and John B.  
Scalzi, CE:June 66:34

Teaching Engineering Attitude to Students,  
Malcolm S. Gregory, PP1:Jan 65:1:4189

TR:131:361

Teaching Mechanics of Materials, J.V.  
Mullin, CE:June 66:67

Trend in Water Resources Education, Carl E.  
Kindsvater, PP2:May 64:1:3889

TR:131:369

Turning Engineers into Construction Men,  
Henry A. Lotoile, CE:Apr 66:42

Dsc, Rennselaer P. Saxe, CE:June 66:79

Where Is Engineering Education Today?--  
from the Educator's Viewpoint, Gene M.

Nordby, CE:Feb 65:56

Dsc: M.D. Morris, CE:Apr 65:80

TR:131:129

**EDUCATION Continued**

- Who Will Train Our Leaders?, Wallace L. Chadwick, CE:Mar 66:31  
 Your Other Culture (The Younger Viewpoint) William K. Johnson, CE:Dec 66:76

**EGYPT**

- Natural Drainage of River Valleys, Hammad Y. Hammad, IR2:Jun 65:39:4360  
 TR:131:227

**ELASTIC ANALYSIS (Structural)**

- Elastic Stresses Around Holes in Wide-Flange Beams, John E. Bower, ST2:Apr 66:85:4773

**ELASTICITY**

- Analysis Comparisons for Single Curved Shell Roofs, Paul E. Mast, ST2:Apr 65:1:4282  
 TR:131:790  
 Bracing Requirements for Inelastic Steel Beams, Maxwell G. Lay and Theodore V. Galambos, ST2:Apr 66:207:4785  
 Coupled Vibrations of Thin-Walled Elastic Bars, Wai Keung Tso, EM3:Jun 65:33:4358  
 TR:131:175  
 Effect of Foreign Inclusions on Properties of Solids, Longin B. Greszczuk, EM6:Dec 66:63:5029  
 Elastic, Large Deflections of Annular Membranes, Archibald N. Sherbourne and William C. Lennox, EM2:Apr 66:75:4775  
 Elastic Plates Subjected to Moving Heat Sources, Ardeshir Jahanshahi, EM4:Aug 65:27:4426  
 TR:131:450  
 Elastic Stability of Radially Nonhomogeneous Rings, S. Russell Keim, EM4:Aug 65:115:4447  
 TR:131:786  
 Elastic Stress Field in a Plate with a Skew Hole, F. Ellyin, N.C. Lind, and A.N. Sherbourne, EM1:Feb 66:1:4651  
 Experimental Stresses in Wide-Flange Beams with Holes, John E. Bower, ST5:Oct 66:167:4945  
 Finite Beams on Elastic Foundations, Constancio Miranda and Keshavan Nair, ST2:Apr 66:131:4778  
 Finite Element Analysis of Axi-Symmetric Solids, Ray W. Clough and Yusef Rashid, EM1:Feb 65:71:4229  
 TR:131:98  
 Flexural-Torsional Buckling of Planar Frames, Alois J. Hartmann and William H. Munse, EM2:Apr 66:37:4767  
 General Theory for Thick Shell Analysis, Alejandro Martínez-Márquez, EM6:Dec 66:185:5048  
 Initial Imperfections in Biaxial Bending, Charles G. Culver, ST3:Jun 66:119:4846  
 Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841  
 Restraints Against Elastic Lateral Buckling, Lewis C. Schmidt, EM6:Dec 65:1:4561  
 TR:131:819  
 Spherical Elastic Plastic Shock Propagation, Morton B. Friedman, Hans H. Bleich, and Raymond Parnes, EM3:Jun 65:189:4377  
 TR:131:76

- Stability of Structures with Small Imperfections, John Rooda, EM1:Feb 65:87:4230

- TR:131:63  
 Stress-Strain Relationships in Triaxial and Consolidation Tests, Dalim K. Majumdar and Gary G. La France, CE:July 66:68  
 Stresses in a Uniformly Loaded Two-Layer Circular Plate, Martin A. Goldberg, Malcolm Newman, and Marvin J. Forray, EM3:Jun 65:13:4356  
 TR:131:652  
 Waves in a Smoothly Joined Plate and Half-Space, Jan D. Achenbach, Satya P. Keshava, and George Herrmann, EM2:Apr 66:113:4781

**ELECTRIC POWER GENERATION**

- American Electric Power System to expand in Appalachia area, CE:Jan 66:95  
 Chile--Concrete-arch dam under construction near Santiago, CE:Jan 66:95  
 Hydropower Project Output Optimization, Warren A. Hall and Theodore G. Roefs, PO1:Jan 66:67:4628  
 The Pacific Northwest-Pacific Southwest Inter-tie, E.V. Lindseth, CE:Dec 66:46

**EMPLOYMENT**

- A Consulting Firm Competes for June Graduates, William J. Mulder, Jr., CE:Aug 66:38  
 Committee on Employment Conditions survey shows higher salaries, CE:Apr 66:36  
 Computerized system for graduate placement, CE:May 66:80  
 Corps of Engineers has jobs in R & D, CE:May 66:93  
 Department of Housing and Urban Development needs qualified civil engineers, CE:Aug 66:98  
 Dsc, Myrl E. Alexander, on rehabilitation of prisoners, CE:Jan 66:72  
 EJC studies summer employment of students, CE:Apr 66:74  
 Engineering Manpower Commission survey finds engineers harder to hire, CE:July 66:41  
 Federal Employee-Management Cooperation: E.O. 10988, Leonard T. Crook, PP1:May 66:19:4819  
 Fringe Benefits in Civil Engineering Compensation, Clair A. Hill, CE:Jul 65:64  
 TR:131:432  
 Junior Engineering Technical Society appoints Executive Director, CE:Feb 66:48  
 1965 ASCE Salary Survey: Report of the Committee on Employment Conditions of the Department of Conditions of Practice, ASCE, Franklin Pitcher, Chmn., PP1:May 66:33:4820  
 Self-Preservation in the Market Place, James A. Christenson, CE:May 66:67  
 Dsc, Marvin E. Warner, CE:Aug 66:74  
 South America-Engineers needed for housing projects, CE:Jan 66:95  
 Turning Engineers into Construction Men, Henry A. Letoile, CE:Apr 66:42  
 Dsc, Van Rennselaer P. Saxe, CE:June 66:79

**EMPLOYMENT Continued**

University of Florida sponsors Conference on Earthmoving, CE:May 66:96

**ENERGY**

Complementary Energy Theorem for Symmetric Shells, Charles Libove, EM6:Dec 64: 73:4149

TR:131:623

**ENGINEERING EDUCATION**

Guide for the Civil Engineering Visitor on ECPD Accreditation Teams: Report of the Task Committee on Accreditation of the Committee on Engineering Education, ASCE, Ross E. McKinney, Chmn., PP1:May 66:1:4814

**ENGINEERING FOUNDATION**

Engineering Foundation elects chairman 1966-1967, CE:Dec 66:78

**ENGINEERING MECHANICS**

Aerodynamic Stability of H Sections, Daniel Dicker, EM2:Apr 66:1:4764

Analysis of an Inelastic Column, John V. Huddleston, EM4:Aug 64:1:3992

TR:131:787

Analysis of Contained Plastic Flow in Plane Solids, Alfredo H.S. Ang and Goin N. Harper EM5:Oct 64:397:4113

TR:131:304

Analysis of Four-Legged Tower for Dynamic Loads, David P. Billington, William S. Gaither, and Alan M. Ebner, EM2:Apr 66:61:4769

Analysis of Laminated Shells of Revolution, Stanley B. Dong, EM6:Dec 66:135:5044

Behavior of Elastic Plastic Trusses with Unstable Bars, Giulio Maier, EM3:Jun 66:67: 4858

Bending of Circular Sandwich Plates, Jao-Shiun Kao, EM4:Aug 65:165:4449

TR:131:438

Buckling Behavior of an Inelastic Column, Allan J. Malvick and Lawrence H.N. Lee, EM3:Jun 65:113:4372

TR:131:692

Buckling Loads for Elastically Supported Struts, A. Raymond Toakley, EM3:Jun 65:205: 4379

TR:131:168

Buckling of Multistory Buildings, John E. Goldberg, EM1:Feb 65:51:4223

TR:131:60

Buckling of Shallow Arches, H.L. Schreyer and Ernest F. Masur, EM4:Aug 66:1:4875

Calculating Deflections of a Partially Collapsed Frame, Nicholas Perrone and Michael C. Soteriades, EM1:Feb 65:1:4214

TR:131:383

Compact Solution of Doubly-Curved Shell Equation, Graham H. Powell, EM5:Oct 66:1: 4927

Comparison of Static and Dynamic Hysteresis, Robert D. Hansen, EM5:Oct 66:87:4949

Complementary Energy Method for Finite Deformations, Charles Libove, EM6:Dec 64:49: 4164

TR:131:414

Complementary Energy Theorem for Symmetric Shells, Charles Libove, EM6:Dec 64: 73:4149

TR:131:623

Coupled Vibrations of Thin-Walled Elastic Bars, Wai Keung Tso, EM3:Jun 65:33:4358

TR:131:175

Discrete Dynamic Models for Elasto-Inelastic Beams, R. Wen and T. Toridis, EM5:Oct 64:71: 4081

TR:131:187

Dynamic Changes of Mode in Rigid-Plastic Structures, Barry Rawlings, EM2:Apr 65:1:4283

TR:131:176

Dynamic Deformations of Circular Membranes, Donald E. Boyd, EM3:Jun 66:1:4844

Dynamic Response of a Floating Rigid-Plastic Box, Rene B. Testa and Hans H. Bleich, EM2: Apr 66:131:4783

Dynamic Response of a Tube Under Moving Pressure, Sing-chih Tang, EM5:Oct 65:97:4508

TR:131:730

Dynamic Response of Beam on Viscoelastic Subgrade, Jan D. Achenbach and Chin-teh Sun, EM5:Oct 65:61:4504

TR:131:602

Dynamics of Separable Multistory Buildings, John S. Maybee, John E. Goldberg, and Ervin D. Herness, EM2:Apr 66:153:4788

Earthquake Response of a Yielding Structure, Paul C. Jennings, EM4:Aug 65:41:4435

TR:131:453

Earthquake Stress Analysis in Earth Dams, Ray W. Clough and Anil K. Chopra, EM2:Apr 66:197: 4793

Edge Load Solutions for Conical Shells, Jack R. Vinson, EM1:Feb 66:37:4657

Effect of Boundary Conditions on Shell Buckling, Leon R.L. Wang, L. Rodriguez-Agrait, and William A. Little, EM6:Dec 66:101:5035

Effect of Foreign Inclusions on Properties of Solids, Longin B. Greszczuk, EM6:Dec 66:63: 5029

Elastic, Large Deflections of Annular Membranes, Archibald N. Sherbourne and William C. Lennox, EM2:Apr 66:75:4775

Elastic Loading of High Pressure Cylinders, Raymond Epain and Boris Vodar, EM5:Oct 64: 363:4108

TR:131:775

Elastic Plates Subjected to Moving Heat Sources, Ardeshir Jahanshahi, EM4:Aug 65:27: 4426

TR:131:450

Elastic Stability of Radially Nonhomogeneous Rings, S. Russell Keim, EM4:Aug 65:115:4447

TR:131:786

## ENGINEERING MECHANICS Continued

- Elastic Stress Field in a Plate with a Skew Hole, F. Ellyin, N.C. Lind, and A.N. Sherbourne, EM1:Feb 66:1:4651
- Elastostatic Problem of a Perforated Square Plate, Alois L. Schlack and Robert W. Little, EM5:Oct 64:171:4089
- TR:131:51
- Engineering Mechanics Division Specialty Conference, Washington, Oct 12-14, CE:Sept 66:52
- Equilibrium Method for Limit Calculation of Frames, Douglas H. Clyde, EM1:Feb 66:169:4697
- Face-Wrinkling Mode of Buckling of Sandwich Panels, Billy J. Harris and W.C. Crisman, EM3:Jun 65:93:4370
- TR:131:575
- Finite Element Analysis of Axi-Symmetric Solids, Ray W. Clough and Yusef Rashid, EM1:Feb 66:71:4229
- TR:131:98
- Finite Element Solution for Axisymmetrical Shells, Egor P. Popov, Joseph Penzien, and Zung-An Lu, EM5:Oct 64:119:4085
- TR:131:114
- Flexural-Torsional Buckling of Planar Frames, Alex J. Hartmann and William H. Munse, EM2:Apr 66:37:4767
- Flow Direction Measurement by Hot-Wire Anemometry, J.W. Delleur, EM4:Aug 66:45:4870
- Flow Graph Solutions of Band Matrix Problems, Chuan C. Feng and Larry J. Feeser, EM1:Feb 66:25:4656
- Fluctuating Total Head in a Viscous Sublayer, Calvin G. Clyde and Hans A. Einstein, EM2:Apr 66:251:4800
- General Theory for Thick Shell Analysis, Alejandro Martínez-Márquez, EM6:Dec 66:185:5048
- Generalized Kelvin-Voigt Used in Soil Dynamics Study, Bobby O. Hardin and Gordon D. Scott, EM1:Feb 66:143:4678
- Grain Size and Loading Effects on Steel, Russel C. Jones and John A. Hribar, EM5:Oct 64:43:4073
- TR:131:56
- Grid-Framework Method for Plates in Flexure, Alan L. Yettam and Husain M. Husain, EM3:Jun 65:53:4361
- TR:131:778
- Heat Analysis-A Tensorial-Dimensional Approach, Sidney F. Borg, EM6:Dec 65:145:4584
- TR:131:825
- Impulsive Loading Theorems for Rigid-Plastic Continua, John B. Martin, EM5:Oct 64:27:4072
- TR:131:746
- An Inclined Plume, Garth S. Harris, EM1:Feb 65:7:4215
- TR:131:416
- Inelastic Buckling Gradient, Bruce G. Johnston, EM6:Dec 64:31:4158
- TR:131:331
- Inelastic Lateral Stability Under a Moment Gradient, Campbell Massey and F.S. Pitman, EM2:Apr 66:101:4779

- Inelastic Response of Beams to Moving Loads, Teotokistos G. Toridis and Robert K. Wen, EM6:Dec 66:43:5028
- Irrational Flow Over Spillways of Finite Height, John J. Cassidy, EM6:Dec 65:155:4591
- TR:131:866
- Large Deflection of Heated Plates, Marion W. Wilcox and Lewis E. Clemmer, EM6:Dec 64:165:4176
- TR:131:181
- Large Plastic Deformation of Pressurized Cylinders, Martin A. Slamon, EM3:Jun 66:33:4854
- Large Strain Analysis and Stresses in Linear Materials, August J. Durelli and Alfred P. Mulzet, EM3:Jun 65:65:4367
- TR:131:139
- Limit Analysis of Notched Tension Specimens, Walid H. Rimawi, Seng-Lip Lee, and T. Mura, EM1:Feb 66:11:4636
- Machine Computation of Trigonometric Functions, David Bushnell and Wayne A. Madsen, EM6:Dec 66:157:5046
- A Method to Increase the Accuracy of Moiré Method, Fu-Pen Chiang, EM1:Feb 65:137:4239
- TR:131:251
- Mode Approximations for Impulsively-Loaded Rigid-Plastic Structures, J.B. Martin and Paul S. Symonds, EM5:Oct 66:43:4938
- Model for Wave Motions in Axi-Symmetric Solids, Alfredo H.-S. Ang and Johann H. Rainer, EM2:Apr 64:195:3878
- TR:131:266
- Model Study of Dynamically Loaded Arch Structures, Don R. Denton and William J. Flathau, EM3:Jun 66:17:4848
- Network Analysis of Structures, Frank L. Di Maggio and William R. Spillers, EM3:Jun 65:169:4376
- TR:131:122
- Non-Newtonian Flows--Their Value in Civil Engineering, George Bugliarello, CE:Aug 65:68
- TR:131:509
- Nonregular Progression in Strain Hardening Shells, Bertram J. Thorn, Jao-Shiun Kao, and Seng-Lip Lee, EM1:Feb 66:59:4658
- On the Bending of Spherical Shells, P. Stern and E.Y.W. Tsui, EM3:Jun 66:53:4857
- On the Shock Response of Inelastic Beams, Kenneth E. Blanchard and Albert B. Schultz, EM5:Oct 65:27:4500
- TR:131:655
- Particle-in-Cell Method in Shock Propagation Problems, Melvin L. Baron, Charles E. Christman, and Oleg Skidan, EM6:Dec 66:205:5049
- Plane-Framework Methods for Plates in Extension, Alan L. Yettam and M. Husain, EM1:Feb 66:157:4695
- Probabilistic Design to Resist Earthquakes, Emilio Rosenbluth, EM5:Oct 64:189:4090
- TR:131:112
- Probability of Structural Failure Under Random Loading, Masanobu Shinozuka, EM5:Oct 64:147:4088
- TR:131:165

## ENGINEERING MECHANICS Continued

Random Vibrations of a Beam Column, Masanobu Shinozuka and L. Henry, EM5:Oct 65: 123:4510

TR:131:611

Resonance of Beams Due to Cyclic Moving Loads, Alois L. Schlack, Jr. and Theodore F. Raske, EM6:Dec 66:175:5047

Response of a Cylindrical Shell to an Elastic Wave, Michael J. Forrestal, Dronnadula V. Reddy, and George Herrmann, EM3:Jun 65:1: 4354

TR:131:52

Response of Liquid in a Rectangular Container, Helmut F. Bauer, EM6:Dec 66:1:4993

Restraints Against Elastic Lateral Buckling, Lewis C. Schmidt, EM6:Dec 65:1:4561

TR:131:819

Shock Response of a Simple Beam on Nonlinear Supports, Theodore R. Tauchert and Robert S. Ayre, EM6:Dec 65:91:4570

TR:131:862

Slow Viscous Flow of an Incompressible Suspension, Gerhard Oertel, EM5:Oct 65:145: 4517

TR:131:494

Solution of Anisotropic Seepage by Finite Elements, Digiard C. Zienkiewicz, Paul Mayer, and Yau Kai Cheung, EM1:Feb 66:111:4676

Solution of Highly Curvilinear Gravity Flows, Theodor S. Stokoff, EM3:Jun 64:195:3950

TR:131:355

Spherical Elastic Plastic Shock Propagation, Morton B. Friedman, Hans H. Bleich, and Raymond Parnes, EM3:Jun 65:189:4377

TR:131:76

Stability of Structures with Small Imperfections, John Roorda, EM1:Feb 65:87:4230

TR:131:63

Static Design of Axisymmetric Plates, George J. Megarefs, EM6:Dec 66:79:5030

Stochastic Model for Predicting Subsidence, Arnold L. Sweet and John L. Bogdanoff, EM2: Apr 65:21:4292

TR:131:59

Strain-Gradient Effects in Microlayers, F.D. Day and Yechiel Weitsman, EM5:Oct 66: 67:4943

Stresses in a Uniformly Loaded Two-Layer Circular Plate, Martin A. Goldberg, Malcolm Newman, and Marvin J. Forray, EM3:Jun 65:13: 4356

TR:131:652

Stresses in Hyperboloids under Edge Loadings, David G. Elms, David P. Billington, and Robert Mark, EM4:Aug 65:89:4441

TR:131:498

A Study of Mechanisms with Application to Frames, Jacques E. Benveniste, EM1:Feb 65: 19:4222

TR:131:446

Study of Stability in the Hyperbolic Paraboloid, Kenneth M. Leet, EM1:Feb 66:121:4677

Thermal-Shock Effects on a Space Vehicle, Lewis Li-Tang Au and Donald J. Trent, EM4: Aug 65:1:4425

TR:131:525

Two Degree-of-Freedom Elastoplastic Response to a Step Velocity Pulse, Robert H. Anderson, EM5:Oct 65:191:4524

TR:131:581

Ultimate Load Capacity of Arch Dams, Jorge I. Bustamante and Emilio Rosenbluth, EM4:Aug 66:21:4879

Unsteady Flow of Solid-Liquid Suspension, Don J. Wood and T. Y. Kao, EM6:Dec 66:117:5039

Validity of a Stochastic Model for Predicting Subsidence, Arnold L. Sweet, EM6:Dec 65:111: 4573

TR:131:783

Vibration of a Radially Loaded Spherical Shell, Carl F. Long, EM2:Apr 66:235:4798

Vibration of a Viscoelastic Timoshenko Beam, H. H. Pan, EM2:Apr 66:213:4794

Vibration Tests of a Nine-Story Steel Frame Building, N. Norby Nielson, EM1:Feb 66:81:4660

Vibrations and Stability of Buckled Panels, Yao W. Chang and Ernest F. Masur, EM5: Oct 65:1:4497

TR:131:755

Viscoelastic Stresses for Moving Temperature Fields, EM2:Apr 66:25:4766

Viscoelastic Wave Interaction with Cylindrical Cavity, Isaac M. Daniel, EM6:Dec 66:25:4999

Water Pressure on Dams Subjected to Earthquakes, Jorge I. Bustamante and Armando Flores, EM5:Oct 66:115:4954

Wave Propagation in a Stress-Relaxing Bar, Robert D. Stoll and Milton S. Hess, EM5:Oct 66: 25:4928

Waves in a Smoothly Joined Plate and Half-Space, Jan D. Achenbach, Satya P. Keshava, and George Herrmann, EM2:Apr 66:113:4781

## ENGINEERING SOCIETIES

A World Organization of Engineers, William

H. Wisely, CE:June 66:37

Dsc, Herbert D. Vogel, CE:July 66:69; David K. Blythe, CE:Sept 66:81

Illinois-Chicago engineering center planned, CE:Mar 66:106

International Conference of Engineering Societies, world engineering federation adopted at UPADI meeting, CE:Dec 66:41

## ENGINEERING SOCIETIES LIBRARY

"Bibliography on Filing Classification and Indexing Systems, and Thesauri for Engineering Offices and Libraries" available, CE:Sept 66:53

Engineering Societies Library appoints Assistant Director, CE:Feb 66:78

Engineering Societies Library automated, CE:May 66:47

## ENGINEERS

Alaska Needs Engineers As Citizens, William A. Egan, CE:Mar 66:43

Breaking Par in Public Engineering Practice, Herbert A. Goetsch, PP2:Dec 66:19:5042

Challenge to Civil Engineering, Harvey Brooks, PPI:Jan 64:21:3750

TR:131:344



**ENGINEERS Continued**

Dsc, Leonard F. Sanborn, CE:Nov 66:77, seeking data on "Are Engineers Safer Drivers?"  
Education for Sanitary Engineers, E. Sherman Chase, PP2:May 64:15:3894

TR:131:301

Educational Requirements for Water Resource Engineers, Alfred R. Golze, PP2:May 64:7:3890

TR:131:606

The Engineer in Charge of Construction, Louis W. Petulla, CE:Oct 66:48

Manager and/or Engineer?, Vinton W. Bacon, CE:May 66:58

National Society of Professional Engineers holds annual meeting in Minneapolis, CE:Oct 66:93

Trend in Water Resources Education, Carl E. Kindswater, PP2:May 64:1:3889

TR:131:369

**ENGINEERS COUNCIL FOR PROFESSIONAL DEVELOPMENT**

Editorial on ECPD, CE:Oct 66:83

Guide for the Civil Engineering Visitor on

ECPD Accreditation Teams: Report of the Task Committee on Accreditation of the Committee on Engineering Education, ASCE, Ross E. McKinney, Chmn., PP1:May 66:1:4814

**ENGINEERS JOINT COUNCIL**

EJC and Dept. of Defense to develop vocabulary base for information retrieval system, CE:Apr 66:74

EJC completes study of engineering technicians salary, CE:Nov 66:53

EJC issues second edition of manual on selective service, CE:Aug 66:82

EJC offers packaged courses, CE:Dec 66:41

EJC publishes symposium on technical information, CE:May 66:80

EJC studies summer employment of students, CE:Apr 66:74

New Directory of Engineering Societies available, CE:Apr 66:38

**ENVIRONMENTAL ENGINEERING**

Challenge to Civil Engineering, Harvey Brooks, PP1:Jan 64:21:3750

TR:131:344

Closed Ecological Systems, William J. Oswald, Clarence G. Golueke, and D.O. Horning, SA4:Aug 65:23:4445

TR:131:868

Environmental Effects of Flood Plain Regulations, Eugene W. Weber and Walter G. Sutton, HY4:Jul 65:59:4402

TR:131:805

Environmental Engineering Intersociety Board exam to be held June 19, 1967, CE:Dec 66:72

Environmental Standards of Bayport, Harry E. Bovay, Jr., UP1:May 66:35:4813

Guide to Professional Collaboration in

Environmental Design, CE:July 66:72

Interprofessional Relationships in Environmental Design, John G. Duba, CE:Feb 66:49

Los Angeles Section sponsors resources management seminar, CE:Dec 66:78

New names for sanitary engineering groups, CE:Aug 66:79

Optimizing Sampling Intervals in Tidal

Estuaries, Charles G. Gunnerson, SA2:Apr 66:103:4799

Water Recreation and the Public Water Supply, Frank M. Stead, CE:Nov 66:54

**E. O. 10988**

Federal Employee-Management Cooperation: E. O. 10988, Leonard T. Crook, PP1:May 66:18:4819

**EPOXY RESINS**

Epoxy Replaces Steel Armor at Discharge Control Gates, John C. Rowland, CE:July 66:64

Fiberglass-Reinforced Plastics as Materials for Construction, Richard E. Chambers, CE:June 66:62

Photosensitive Plastics Extend the Range of Photoelastic Stress Studies, John P. Cook, CE:Nov 66:87

TR:131:711

Plastic Cable Covering Introduced on California Suspension Bridge, Jackson L. Durkee and George B. Shaw, Jr., CE:Feb 66:63

**EQUIPMENT**

Converting Excavation Specifications into a Plan of Operation, A. Brinton Carson, CE:Apr

Poorly Composed Specifications Cost Money, C. Vaughn Rotz, CE:Jan 66:63

Dsc, Robert F. Legget, CE:June 66:79

Teaching Mechanics of Materials, J. V. Mullin, CE:June 66:67

**EROSION**

Abstracted Bibliography on Erosion of Cohesive Materials: Task Committee on Erosion of Cohesive Materials, Committee on Sedimentation, ASCE, Frank D. Masch, Chmn., HY2:Mar 66:243:4746

Bank Erosion in Soils of the Lower Mississippi Valley, Willard J. Turnbull, Ellis L. Krinitzky, and Frank J. Weaver, SM1:Jan 65:121:4632

Cellular Concrete Block Revetment, D.A. Parsons and R. P. Apmann, CE:Feb 65:66

TR:131:128

Erosion and Deposition of Cohesive Soils, Emanuel Partheniades, HY1:Jan 65:105:4204

TR:131:319

Snake River Bank Stabilization, Leland B. Jones, WW1:Feb 66:1:4642

**ESTIMATES**

How Contractors Organize Their Cost Estimating and Control: Report by the Subcommittee on Organization of Estimating Departments, of the Committee on Estimating and Cost Control, ASCE, Elsie Eaves, Chmn., CO1:Jan 66:53:4631

**ESTUARIES**

Erosion and Deposition of Cohesive Soils, Emanuel Partheniades, HY1:Jan 65:105:4204

TR:131:319

Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66:23:4936

**ESTUARIES Continued**

- Optimizing Sampling Intervals in Tidal Estuaries, Charles G. Gunnerson, SA2:Apr 66: 103:4799
- Tidal Characteristics of Two Estuaries in Florida, William B. Stelzenmuller, WW3: Aug 65:25:4431
- TR:131:545

**ETHICS**

- Chicago's sanitary district superintendent undeterred by bomb attempt, CE:Oct 66:82
- Choice Not Chance in Technopolis, George Ewing Hunter, PP2:Dec 66:15:5041
- Dsc, Edward J. Cleary, CE:Oct 66:67 on the attack of Vinton W. Baco
- National Academy of Engineering forms Committee on public engineering policy, CE:Dec 66:71
- Opinions of the Board of Ethical Review, available from the National Society of Professional Engineers, CE:Jan 66:94
- Worlds of Two Giants, Paul M. Wright, PP2: Dec 66:1:4997

**EVAPORATION**

- Design Drouth Criteria, Robert S. Gooch, HY2:Mar 66:233:4731
- Determination of Water Use by Phreatophytes and Hydrophytes, G. H. Hughes and Charles C. McDonald, HY2:Mar 66:63:4714
- Evaporation Reduction on Large Reservoirs, C. Earl Israelson and Vaughn E. Hansen, IR1: Mar 65:93:4262
- TR:131:784

**EVAPOTRANSPIRATION**

- Determination of Water Use by Phreatophytes and Hydrophytes, G. H. Hughes and Charles C. McDonald, HY2:Mar 66:63:4714

**EXCAVATION**

- Converting Excavating Specifications into a Plan of Operation, A. Brinton Carson, CE:Apr 66:58
- Florida--The Cross-Florida Barge Canal Under Construction, F. O. Biehn, CE:May 65: 48
- TR:131:371
- Influence of Modern Construction Equipment on San Luis Dam, Thomas P. Bixby, CE:Nov 66:60
- Moving 165 Million Tons for World's Highest Compacted Fill--Oroville Dam, R. C. McDowell, CE:Apr 66:26
- Dsc, E. M. T. Ryder, CE:Aug 66:73; Dsc & reply, Alfred R. Golze, Aug 66:73
- Surface Settlement Adjacent to Braced Open Cuts, Marc S. Caspe, SM4:July 66:51:4867
- Tie-Backs in Soil Open Building Area for Unobstructed Deep Excavation, Weldon S. Booth, CE:Sept 66:46

**EXPANSION**

- Preformed Elastic Expansion Joints for Highway Structures, Richard W. Albrecht, CE:Dec 66:56

**EXPLOSIONS**

- Boiler Column Straightening Under Load Conditions, James F. O'Sullivan and Dallas I. Downs, PO2:Apr 66:115:4751
- Model for Wave Motions in Axis-Symmetric Solids, Alfredo H.-S. Ang and Johann H. Rainer, EM2:Apr 64:195:3878
- TR:131:266

**EXPLOSIVES**

- Bridge Demolition at Oroville Dam, CE:Apr 66:32
- Soil Surface Compaction with a Foam-Type Explosive, L. J. Goodman, A. R. Aidun, and C. S. Grove, Jr., SM1:Jan 65:143:4211
- TR:131:534

- Canada--Bridge over St. Lawrence to St. Helen's Island to be part Expo 67, CE:Aug 66:95

**FABRICATION**

- Verrazano-Narrows Bridge: Fabrication and Construction of Superstructure, John W. Kinney, Herbert Rothman, and Frank Stahl, CO2:Mar 66:119:4745

**FAILURE**

- The Analysis of Structural Safety, Alfred M. Freudenthal, Jewell M. Garretts, and Masanobu Shinozuka, ST1:Feb 66:267:4682
- Buckling of Soil-Surrounded Tubes, Ulrich Luscher, SM6:Nov 66:211:4990
- Connections for Precast Members Can Be Trouble-Free, Paul Gordon, CE:July 66:62
- Membrane Forces and Buckling in Reticulated Shells, Douglas T. Wright, ST1:Feb 65:173: 4227
- TR:131:279
- Study of Dynamic and Static Failure Envelopes, B. B. Schimming, H. J. Haas, and H. C. Saxe, SM2:Mar 66:105:4735
- Washington--Legacy of Galloping Certie (Tacoma Narrows Bridge), Robert Goller, CE: Oct 65:50
- TR:131:704

**FASTENERS**

- Hurricane-Resistant Plywood Construction, J. M. Carney, CE:June 66:57

**FEES**

- Engineering Societies protest limiting architectural-engineering fees, CE:Nov 66:53

**FELDSPAR**

- Stress-Dilatancy Performance of Feldspar, I. K. Lee, SM2:Mar 66:79:4734

**FELLOWSHIPS**

- Candidates sought for White House Fellows, CE:Nov 66:97
- White House Fellowship--A Year at the Top, Richard de Neufville, CE:Oct 66:44

**FIELD TESTING**

- Pile Load Capacity: Estimates and Test Results, William S. Housel, SM4:Jul 66:1:4861



**FILL (Earth)**

- Breakwater from No-Cost Fill in Flushing Bay, N.Y., Bogos Torikoglu, CE:July 66:58  
 Quality control of Compacted Earthwork, W.J. Turnbull, J.R. Compton, and R.G. Ahlvin, SM1:Jan 66:93:4623  
 Rockfill Design-Carters Dam, Fred A. Robeson and Robert L. Crisp, Jr., CO3:Sept 66:51:4906

**FILTERS (Fluid)**

- Development of a New Type of Rapid Sand Filter, Raymond E. Herbert, SA1:Feb 66:31:4649  
 Effect of Backwash on Filter Effluent Quality, Robert L. Johnson and John L. Cleasby, SA1:Feb 66:215:4692  
 Experimental Evaluation of Sand Filtration Theory, David M. Fox and John L. Cleasby, SA5:Oct 66:61:4941  
 Filtration Through Size-Graded Media, Ernest W.J. Diaper and Kenneth J. Ives, SA3:Jun 65:89:4378

TR:131:771

- Free-Living Nematode Removal by Rapid Sand Filters, Ronald L. Peterson, R.S. Engelbrecht, and John H. Austin, SA1:Feb 66:229:4693  
 Manifolds, Rotating and Stationary, Chester J. Ordon, SA1:Feb 66:269:4696  
 Optimization Analysis for Biological Filter Design, William S. Galler and Harold S. Gotaas, SA1:Feb 66:163:4684  
 Trickling Filter Stone Gradation and Placement, Ronald F. Wukasch and Don E. Bloodgood, SA2:Apr 66:59:4761

**FILTRATION**

- Design Aspects of Lompoc Water Treatment Plant, Charles H. Lawrance, SA6:Dec 64:81:4181  
 TR:131:275  
 Development of a New Type of Rapid Sand Filter, Raymond E. Herbert, SA1:Feb 66:31:4649  
 Effect of Backwash on Filter Effluent Quality, Robert L. Johnson and John L. Cleasby, SA1:Feb 66:215:4692  
 Experimental Evaluation of Sand Filtration Theory, David M. Fox and John L. Cleasby, SA5:Oct 66:61:4941  
 Filtration Through Size-Graded Media, Ernest W.J. Diaper and Kenneth J. Ives, SA3:Jun 65:89:4378

TR:131:771

- Free-Living Nematode Removal by Rapid Sand Filters, Ronald L. Peterson, R.S. Engelbrecht, and John H. Austin, SA1:Feb 66:229:4693  
 Optimization Analysis for Biological Filter Design, William S. Galler and Harold S. Gotaas, SA1:Feb 66:163:4684  
 Redwood Bark for Sewage Treatment, Edward F. Carpenter, SA1:Feb 66:11:4641  
 Sand Filtration of Particulate Matter, Eric Davis and Jack A. Borchardt, SA5:Oct 66:47:4940  
 Theory of Water Filtration, Thomas R. Camp, SA4:Aug 64:1:3990  
 TR:131:1

- Turbulent Flow in Porous Media, J.C. Ward, HY5:Sep 64:1:4019  
 TR:131:664

**FINANCING**

- Financing Future Intercity Transportation Systems, Ronald W. Pulling, HW1:Jan 65:1:4187  
 TR:131:817  
 International banks invest over \$2 billion in world highways, CE:July 66:85  
 New York--Financial agreement reached on Trade Center, CE:Sept 66:102  
 The Omnibus Rivers and Harbors and Flood Control Act of 1966 authorizes 42 projects, CE:Dec 66:82  
 Renaissance in Rapid Transit, Kneeland A. Godfrey, Jr., CE:Dec 66:28  
 Verrazano-Narrows Bridge: Development and Financing Project, Peter J. Reidy, CO2:Mar 66:1:4740

**FIRE PROTECTION**

- Fire Protection of Structural Steel Framing, Roger H. Wildt, CE:Sept 66:70  
 Prestressed Lift Slabs Withstand Fire, G.E. Troxell, CE:Sep 65:64  
 TR:131:762

**FLOOD CONTROL**

- Are Flood-Plain Regulations Sound?, C.J. Posey, CE:Jun 65:68  
 TR:131:417  
 California--Groundbreaking for New Melones Dam, CE:Dec 66:84  
 East Pakistan--Master Plan for Water and Power Development, Ernest M. Bowles, CE:Aug 65:56  
 TR:131:483  
 Inland Delta Building Activity of Kosi River, Chintaman V. Gole and Shrikrishna V. Chitale, HY2:Mar 66:111:4722  
 Planning Construction of Four-River Basin Project, Edwin W. Eden, Jr., IR3:Sept 66:1:4897  
 Rhode Island--Hurricane barrier to protect Providence, CE:Mar 66:103  
 Snake River Bank Stabilization, Leland B. Jones, WW1:Feb 66:1:4642  
 Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, SU1:Jan 66:1:4599  
 Tennessee-TVA to build dam on the Elk River, CE:Jan 66:94

**FLOODS**

- Barge Docks for Inland Waterways, William L. Horstman, WW4:Nov 64:99:4146  
 TR:131:703  
 Effect of Floods and Obsolescence on Bridge Life, Manuel A. Benson and N.C. Matalas, HW1:Jan 65:55:4208  
 TR:131:830  
 Environmental Effects of Flood Plain Regulations, Eugene W. Weber and Walter G. Sutton, HY4:Jul 65:59:4402  
 TR:131:805

**FLOODS Continued**

Flood Proofing in a Flood Plain: A Stochastic Model, Viraf S. Bhavnagri and George Bugliare-  
llo, HY4:Jul 66:63:4868

Inland Delta Building Activity of Kosi River,  
Chintaman V. Gole and Shrikrishna V. Chitale,  
HY2:Mar 66:111:4722

Mud Floods Related to the Irazu Volcano  
Eruptions, Carlos A. Ulate and Manuel F.  
Corrales, HY6:Nov 66:117:4984  
Sequential Generation of Rainfall and Runoff  
Data, Ven Te Chow and S. Ramaseshan, HY4:  
Jul 65:205:4416

TR:131:696

Snake River Bank Stabilization, Leland B.  
Jones, WW1:Feb 66:1:4642  
Storm Loss Rates for Regions with Limited  
Data, David H. Pilgrim, HY2:Mar 66:193:4728  
Tactically Maximized Small Watershed Flood  
Estimates, Brian M. Reich and Lourens A. V.  
Hemstra, HY3:May 65:217:4339

TR:131:753

**FLOORS**

Analysis of a Shear Wall Supported by a Beam,  
A. T. Hinkley, ST1:Feb 66:121:4668  
Buckling of Multistory Buildings, John E.  
Goldberg, EM1:Feb 65:51:4223

TR:131:60

Recommended Practice for Manufactured  
Reinforced Concrete Floor and Roof Units; Pro-  
gress Report by the Task Committee on Precast  
Concrete Design and Construction, Structural  
Division, ASCE, P. H. Kaar, Chmn., ST5:Oct  
66:119:4935

**FLUID FLOW**

Properties of Porous Media Affecting Fluid  
Flow, R. H. Brooks and A. T. Corey, IR2:Jun  
66:61:4855

**FLUMES**

Mounting Plate Glass in Sides of Flumes and  
Tanks, Elton F. Daly, CE:Jun 65:74

TR:131:586

Resistance Relationships for Alluvial Channel  
Flow, R. J. Garde and Ranga K. G. Raju, HY4:  
Jul 66:77:4869

**FLY ASH**

Admixtures for Concrete, Thomas J. Reading,  
CE:Mar 66:52  
Air Pollution from Incinerators--Causes and  
Cures, Leo P. Flood, CE:Dec 65:44

TR:131:734

Grouting a Dam Cutoff in Cavernous Limestone,  
Leland F. Grant and John S. Winefordner, CO3:  
Sept 66:1:4894

**FOLDED PLATES**

Analysis Comparisons for Single Curved Shell  
Roofs, Paul E. Mast, ST2:Apr 65:1:4282

TR:131:790

Experimental Analysis of Continuous Folded  
Plates, Fred W. Beaufait and George A. Gray,  
ST1:Feb 66:11:4661

Multiple Folded Plates, Kuang-Han Chu and  
S. G. Pinjarkar, ST2:Apr 66:297:4791

Nonlinear Solution for Folded Plate Structures,  
Larry E. Farmer and John E. Breen, ST2:Apr  
66:229:4786

Strength of Reinforced Concrete Folded Plate  
Models, Alexander C. Scordelis and Peter V.  
Gerasimenko, ST1:Feb 66:351:4688

**FOOTINGS**

Approximation for Terzaghi's Bearing Capacity  
Factors, Raymond J. Krizek, SM2:Mar 65:1:  
4247

TR:131:55

Design of Footing for Exposed Exterior Col-  
umn, Yin-chow Chang, SM4:Jul 65:77:4401

TR:131:352

Designing Isolated Footings against Overturn-  
ing, Donald G. Newnan, CE:Dec 65:70  
Dsc: Herman Soifer, CE:Apr 66:65  
Corr: CE:Feb 66:74

TR:131:672

Dynamic Response of Footings to Vertical  
Loading, J. Lymer and F. E. Richart, Jr.,  
SM1:Jan 66:65:4592

Eccentrically Loaded Trapezoidal or Round  
Footings, Alfred Zweig, ST1:Feb 66:161:4670  
Signboard Footings to Resist Wind Loads, Don  
L. Ivey with Leon Hawkins, CE:Dec 66:34

Transient Loading Tests on a Circular Footing,  
Vincent P. Drnevich and John R. Hall, SM6:Nov  
66:153:4979

Transmission Tower Foundations, Dallas I.  
Downs and Robert Chieuzzi, PO2:Apr 66:91:  
4750

**FORECASTING**

Estuarine Water Quality Management and Fore-  
casting, Robert V. Thomann and Matthew J.  
Sobel, SA5:Oct 64:9:4116

TR:131:808

Financing Future Intercity Transportation  
Systems, Ronald W. Pulling, HW1:Jan 65:1:4187

TR:131:817

Graphical Method for Discounting Future Bene-  
fits in Feasibility Studies, George E. Ribble,  
CE:Nov 65:86

TR:131:662

River Flood Flows, Forecasts and Probabili-  
ties, Michael C. Quick, HY3:May 65:1:4312

TR:131:546

**FOREIGN ENGINEERING**

Africa--Civil engineers needed, CE:Oct 66:92  
Africa--Highway across Sahara planned, CE:  
June 66:98

The American Consulting Engineer Abroad,  
Edward J. Quirin, CE:Mar 65:45; Apr 65:54;  
May 65:60

TR:131:161

Australia--Iron ore complex to be developed,  
CE:Jan 66:96

Australia--Postpones Ord River project, CE:  
Dec 66:81

A Cadastral Survey for Emerging Afghanistan,  
Lloyd A. Dove and Neymatullah, CE:Oct 66:41

Canada--Automated train for 1967 Montreal  
Fair, CE:Jan 66:95

Canada--Bridge over St. Lawrence to St.  
Helen's Island to be part of Expo 67, CE:Aug  
66:95

## FOREIGN ENGINEERING Continued

Canada--Hydro Development of the Manicouagan and Outardes Rivers in Quebec, Benoit Baribeau, CE:Dec 65:53

TR:131:744

Canada--Manitoba to build Kettle Rapids Dam, CE:May 66:91

Canada--Montreal subway nears completion, CE:Oct 66:91

Canada--Toronto Office-Building Complex Breaks Records, John L. Kellermann, CE:May 65:62

TR:131:368

Canada--Unique housing project being built at Montreal World's Fair, CE:June 66:100  
A Children's Hospital for Poland with Research and Teaching Facilities, Witold Pytowski, CE:Nov 66:64

Chile--Concrete-arch dam under construction near Santiago, CE:Jan 66:95

Chile--Seabees Give Technical Assistance in Chile, Leroy D. Lawson, CE:Feb 65:47

TR:131:110

Contract Award Practices, Hal W. Hunt, Douglas H. Logan, Roger H. Corbetta, A. Holmes Crimmins, Robert P. Bayard, Edward Lore, and Samuel A. Bogen, COI:Jan 66:1:4604

East Pakistan--Master Plan for Water and Power Development, Ernest M. Bowles, CE:Aug 65:56

TR:131:483

Ecuador--feasibility study of hydroelectric power development in Jubones and Paute River basins planned, CE:Aug 66:96

England--Mersey River tunnel under construction, CE:Apr 66:80

Foreign Contracts--Subject of the Approval of AID, Julius Kaplan, CE:Mar 66:62

Dsc, Chester L. Lucas, CE:June 66:78

France--Rance River tidal dam finished, CE:May 66:91

Ghana--Akosombo Dam dedicated, CE:Apr 66:79

Great Britain--Nuclear station under construction in North Wales, CE:Apr 66:79

Hong Kong opens new ocean terminal, CE:May 66:94

Hong Kong--Unique water-supply project, CE:Mar 66:103

India--Calcutta legislates water and sanitation authority, CE:June 66:99

India--Pamba-Kakili project under contract, CE:Oct 66:92

India--Sabarigiri Hydroelectric Project under construction, CE:Dec 66:83

Inland Water Transportation in Poland, Fryderyk Tomala, WWI:Feb 65:1:4231

TR:131:875

International banks invest over \$2 million in world highways, CE:July 66:85

Iran--Two large dams for hydroelectric and irrigation development planned, CE:Aug 66:98

Japan--Automated steel mill expanded, CE:Dec 66:82

Japan--Longest suspension bridge planned, CE:Oct 66:90

Korea--U.S. Bureau of Reclamation to aid Han River basin planning, CE:Apr 66:82

Kuwait--contract for desalting equipment, CE:May 66:94

Laos--Canadian firm chosen for hydroelectric development, CE:Sept 66:98

Mexico--Construction of Amistad Dam on Rio Grande on schedule, CE:Dec 66:81

Military Engineering in Vietnam, Peter A. Corradi, CE:Nov 65:47

TR:131:617

The Netherlands--Rotterdam's Rapid Transit Tunnel, Ir. G. Plantema, CE:Aug 65:34

TR:131:520

A New and Better Foreign Technical Assistance Program, John S. Hale, CE:Jul 65:62

Dsc, I. Khwaja, CE:Oct 65:80

TR:131:439

Offshore Tanker Terminal in Greece, D. L. Poppy, CE:Mar 66:59

Penstock Codes--U.S. and Foreign Practice, Andrew Eberhardt, PO2:Apr 66:137:4752

Peru--Arequipa to build sewage treatment plant, CE:Feb 66:91

Peru--World Bank grant for Trans-Andean Highways, CE:Jan 66:94

Plan for Darien Gap in Pan-American road, CE:Oct 66:93

Portugal--Tagus River Bridge opens ahead of schedule, CE:Sept 66:98

Renaissance in Rapid Transit, Kneeland A. Godfrey, Jr., CE:Dec 66:28

Russia--Record dynamite blast aid dam building, CE:Dec 66:81

Severn River bridge opens ahead of schedule, CE:Oct 66:89

South America--Engineers needed for housing projects, CE:Jan 66:95

South Vietnam--Consulting engineers chosen for Saigon water supply system, CE:July 66:85

Spain--First clear water for Zaragoza, CE:Apr 66:81

Spain--Reconstruction of Moscow for movie set, CE:Mar 66:104

Thailand--Consulting engineers chosen for sewage works in Bangkok, CE:Nov 66:99

Thailand--USBR team plans water project on Mekong River, CE:Sept 66:101

Third Institute for International Engineering sponsored by the Consulting Engineers Council and U.S. Dept. of Commerce, CE:Nov 66:80

Translation of Foreign Literature on Hydraulics: Eighth Progress Report of the Task Force on List of Translations of the Committee on Hydromechanics, ASCE, Jan C. Van Tienhoven, Chmn., HY2:Mar 66:53:4713

United Arab Republic--Suez Canal to be widened, CE:Sept 66:99

Venezuela--Cable spinning for Orinoco River bridge begins, CE:Sept 66:102

Venezuela--Consulting engineers chosen for Venezuelan Water Project, CE:June 66:100

## FOREIGN ENGINEERING Continued

Water for the World, M.D. Morris, William E. Wood, James J. Geraghty, James Gould, Gordon R. Williams, Donald F. Othmer, Donald R. Lueder, Malcolm Pirnie, Jr., and Arthur C. Ford, SA1:Feb 65:14220

TR:131:802

Water Supply for Saigon, Walter T. McPhee, CE:Sep 65:59

TR:131:426

## FORMWORK (Construction)

Alabama--Low Cement Content for Mass Concrete in TVA's Guntersville Lock, J.C. McCraw, CE:Nov 65:70

TR:131:634

Cable-Supported Warehouse Roof Provides Large Open Area, Fred Fischer, Jr., CE:Sept 66:43

Dac, Walter H. Wheeler, CE:Dec 66:61  
Lateral Pressure of Concrete on Formwork, R.L. Peurifoy, CE:Dec 65:60

Dac and addendum: A.G.G. Ritchie, CE: Mar 66:86; Peter D. Courtois, CE:Apr 66:64  
TR:131:679

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Eligator, CE:Sept 66:62

Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Brandlee and W.H. Jervis, CE:Aug 66:58

Water Leakage at Form Ties, P. Jackson, CE:Nov 66:74

## FOUNDATIONS

Apollo-A Trip to the Moon--Symposium, (1)  
Vehicle Assembly Building--Project Description, Organization, and Procedures, William D. Alexander, CE:Jan 65:42

Dac: E.M.T. Ryder, CE:Apr 65:80

TR:131:11

Apollo-A Trip to the Moon--Symposium, (2)  
Design of the Vehicle Assembly Building, Anton Tedesko, CE:Jan 65:45

TR:131:53

Apollo-a trip to the moon--symposium, (3)  
Vehicle Assembly Building--foundations, Philip C. Rutledge, Jan 65:50

TR:131:67

Consolidation of Nonhomogeneous Clay Layers, Robert L. Schiffman and Robert E. Gibson, SM5:Sep 64:14043

TR:131:659

Design of Footing for Exposed Exterior Column, Yin-chow Chang, SM4:Jul 65:77:4401

TR:131:352

"Design of Foundations for Control of Settlements" 1964 conference papers available, CE: Nov 66:81

Design of Karadj Arch Dam, Jan A. Veltrop and Roman P. Wengler, PO1:Mar 64:1:3827  
TR:131:213

Design of Laterally Loaded Piles, Bengt B. Broms, SM3:May 65:79:4342

TR:131:389

Designing Isolated Footings Against Overturning, Donald G. Newman, CE:Dec 65:70

TR:131:672

Development of Arch Action in Arch Dams, K.V. Swaminathan, PO1:May 65:39:4329

TR:131:135

Differential Settlement at Selfridge Air Force Base, George B. Wallace and William C. Otto, SM5:Sep 64:197:4047

TR:131:70

Dynamic Response of Beam on Viscoelastic Subgrade, Jan D. Achenbach and Chin-teh Sun, EM5:Oct 65:61:4504

TR:131:602

Dynamic Response of Footings to Vertical Loading, J. Lysmer and F.E. Richart, Jr., SM1:Jan 65:65:4592

Eccentrically Loaded Trapezoidal or Round Footings, Alfred Zweig, ST1:Feb 66:161:4670

Electric Piezometer for Field Installation, Raymond Lundgren, CE:Aug 66:52

Engineering Measurements for Port Allen Lock, R.I. Kaufman and W.C. Sherman, Jr., SM5:Sep 64:221:4020

TR:131:29

Factors Effecting Seismic Design of Water Towers, B.K. Ramiah and D.S. Rajata Mohana Gupta, ST4:Aug 66:13:4886

Field Observation of Structures Damaged by Settlement, Donald McKinley, SM5:Sep 64:249:4054

TR:131:316

Finite Beams on Elastic Foundations, Constanancio Miranda and Keshavan Nair, ST2:Apr 66:131:4778

Foundation Clay Shrinkage Caused by Large Trees, Mark J. Hammer and Orville B. Thompson, SM6:Nov 66:1:4956

Foundations on Fissured Limestone--How They Were Selected, Henry M. Reitz, CE: Sep 65:52

TR:131:543

Grouting a Dam Cutoff in Cavernous Limestone, Leland F. Grant and John S. Winefordner, CO3:Sept 66:1:4894

Influence Functions for Beams on Elastic Foundations, Alexander Dodge, ST4:Aug 64:63:4002

TR:131:102

Interaction of Shear Walls and Frames, Fazlur R. Khan and John A. Sbarounis, ST3:Jun 64:285:3957

TR:131:247

Key Words and Abstracts for American Papers in the Proceedings of the 6th International Conference on Soil Mechanics and Foundations Engineering: Report by U.S. Natl. Committee for the Internatl. Soc. of Soil Mechanics and Foundations Engrg., ASCE, Bramlette McClelland, Chmn., SM1:Han 66:137:4635

Lunar Launch Complex, Victor F. Leabu, CE: May 66:37

Modulus of Deformation of Pavement Bases, John P. Nielsen, AT1:Jan 66:95:4613

Pile and Pier Foundations, Ralph B. Peck, SM2:Mar 65:33:4273

TR:131:224

Piling Difficulties in the New York Area, James D. Parsons, SM1:Jan 66:43:4617

**FOUNDATIONS Continued**

Preloading Results in Tank Foundation Economies, Louis J. Goodman and Norbert E. Faltyn, COI:May 65:125:4335

TR:131:843

Replica Modeling in Soil Dynamics, Peter S. Westine, SM6:Nov 66:169:4980

Revised Bibliography on Chemical Groutings; Third Progress Report of the Committee on Grouting, Soil Mechanics and Foundations Division, ASCE, W.K. Seaman, Chmn., SM6:Nov 66:39:4969

Settlement of Buildings on the MIT Campus, Harry M. Horn and T. William Lambe, SM5:Sep 64:181:4038

TR:131:221

Shallow Foundations, George G. Meyerhof, SM2:Mar 65:21:4271

TR:131:441

Stability of an Overfall Founded on Permeable Soils, Subba Rao Gutti, HY3:May 66:37:4821

State-of-the-Art of Floating Foundations, Hugh Q. Golder, SM2:Mar 65:81:4278

TR:131:327

Stress-Strain Relationships in Triaxial and Consolidation Tests, Dalim K. Majumdar and Gary G. La France, CE:July 66:68

Surface Settlement Adjacent to Braced Open Cuts, Marc S. Caspe, SM4:Jul 66:51:4867

Sweden--Building foundation built as a caisson for port storage in Stockholm, Hal W. Hunt, CE:Jan 65:60

TR:131:39

Tie-Backs in Soil Open Building Area for Unobstructed Deep Excavation, Weldon S. Booth, CE:Sept 66:46

Tolerance of Structures to Settlement, Jacob Feld, SM3:May 65:65:4336

TR:131:398

Transmission Tower Foundations, Dallas I. Downs and Robert Chieuzzi, PO2:Apr 66:91:4750

Verrazano-Narrows Bridge: Construction of Tower Foundations and Anchorages, Nomer Gray and George H. Decancq, CO2:Mar 66:95:4744

Verrazano-Narrows Bridge: Design of Tower Foundations and Anchorages, Leo H. Just, Ira G. Levy, and Vladimir Obricjan, CO2:Mar 66:71:4743

Waterproofing Below the Ground Line, Thaddeus R. L. Lazarr, CE:Jun 65:73

TR:131:400

Waves in a Smoothly Joined Plate and Half-Space, Jan D. Achenbach, Satya P. Keshava, and George Herrmann, EM2:Apr 66:113:4781

**FRAMES**

Analysis of Vierendeel Truss with Inclined Chords, Hsien-San Tsang, ST5:Oct 66:147:4942

Behavior of Square Infilled Frames, Bryan Stafford Smith, ST1:Feb 66:381:4690

Brick Bearing Walls for Multi-Story Structures, Robert D. Dikkers, with John C. Grogan, CE:Sept 66:76

Direct Design of Framed Structures, John F. Brothie, ST6:Dec 64:243:4182

TR:131:37

Dynamic Influence Lines of Beams and Frames, Fernando Venancio Filho, ST2:Apr 66:371:4797

Earthquake Damping in Building Frames, Charles Mackintosh, CE:June 66:70

Equilibrium Method for Limit Calculations of Frames, Douglas H. Clyde, EM1:Feb 66:169:4697

Flexural Analysis of Coplanar Frames, Frederick P. Wiesinger, ST1:Feb 66:131:4669

Flexural-Torsional Buckling of Planar Frames, Alois J. Hartmann and William H. Munse, EM2:Apr 66:37:4767

Frame Instability and Strain Hardening in Plastic Theory, J. Michael Davies, ST3:Jun 66:1:4836

Frames of Solid Bars of Varying Cross Sections, Edward J. Krynicki and Zbigniew E. Mazurkiewicz, ST4:Aug 64:145:4010

TR:131:716

Fully-Stressed Design for Alternative Loads, Dhanjoo N. Ghista, ST5:Oct 66:237:4952

Inelastic Buckling of Steel Frames, Le-Wu Lu, ST6:Dec 65:185:4577

TR:131:870

Inelastic Frame Buckling, Fred Moses, ST6:Dec 64:105:4169

TR:131:153

Interaction of Continuous Frames and Soil Media, David Morris, ST5:Oct 66:13:4929

Interaction of Shear Walls and Frames, Fazlur R. Khan and John A. Sbarounis, ST3:Jun 64:285:3957

TR:131:247

Loading Effects in Structural Steel Design, Richard N. Wright and William J. Hall, ST5:Oct 64:11:4024

TR:131:195

Shakedown Analysis of Some Typical One-story Bents, Egor P. Popov and Eric Becker, ST5:Oct 64:1:4069

TR:131:186

A Study of Mechanisms with Application to Frames, Jacques E. Benveniste, EM1:Feb 65:19:4222

TR:131:446

Welded Connections for Space Frame Joints, Robert H. Goldsmith, ST5:Oct 64:63:4100

TR:131:712

**FRICITION**

An Explicit Friction-Factor Relationship, Don J. Wood, CE:Dec 66:60

Study of Dynamic and Static Failure Envelopes, B.B. Schimming, H.J. Haas, and H.C. Saxe, SM2:Mar 105:4735

Water-Hammer Charts Including Fluid Friction, David Stephenson, HY5:Sept 66:71:4908

**FRINGE BENEFITS**

Fringe Benefits in Civil Engineering Compensation, Clair A. Hill, CE:Jul 65:64

TR:131:432

**GAGES**

County Rain-Gage Network Useful in Design, Alfred R. Pagan and Ronald Rothenberg, CE:Apr 65:68

TR:131:269

**GALVANIZING**

Suspender Ropes for George Washington Bridge  
Pass Rigid Tests but Need Maintenance, Irvine  
P. Gould and Henry A. Druding, CE:July 66:52

**GARAGES**

Small Parking Garages for Huge Los Angeles  
International Airport, Grant S. Anderson,  
CE:Aug 66:43

Tie-Backs in Soil Open Building Area for Un-  
obstructed Deep Excavation, Weldon S. Booth,  
CE:Sept 66:46

**GAS STORAGE**

Storage Containers for Liquefied Natural Gas,  
P.J. Anderson and A.R. Khan, CE:Aug 65:65  
TR:131:516

**GATES**

Analysis of Multicell Box Gates for Dry Docks,  
Mohamed Ali El-Gaaly, ST3:Jun 65:171:4380  
TR:131:435

**GEODESY**

Geodetic Precision in One Perspective, Theo-  
dore E. Wirtanen, SU1:Jan 66:11:4600

A Research Program in Surveying and Mapping:  
Progress Report of the Research Committee of  
the Surveying and Mapping Division, ASCE, R.H.  
Moore, Chmn., SU1:Jan 66:25:4629

**GEODETIC SURVEY**

Geodetic Precision in One Perspective, Theo-  
dore E. Wirtanen, SU1:Jan 66:11:4600

**GEOLOGY**

Bank Erosion in Soils of the Lower Mississippi  
Valley, Willard J. Turnbull, Ellis L. Krinitzky,  
and Frank J. Weaver, SM1:Jan 66:121:4632

Contractor's View on Unlined Tunnels, Alfred  
M. Petrofsky, PO3:Oct 64:91:4086  
TR:131:43

Design and Construction Features: Boundary  
Project, H.V. Strandberg, PO2:Apr 66:157:4753  
Machine Tunneling on Missouri River Dams,  
Lloyd B. Underwood, CO1:May 65:1:4314  
TR:131:780

Rock Properties Interpreted from Sonic Veloc-  
ity Logs, Roderick D. Carroll, SM2:Mar 66:43:  
4715

Tunnel Design in Massive Rocks, Lawrence  
Adler, SM6:Nov 66:189:4989

**GIRDER BRIDGES**

Continuous-Composite All-Welded Bridges,  
Martin C. Rissel, Arthur H. Redman and Theo-  
dore H. Karasopoulos, CE:Dec 66:42

St. Louis' Poplar Street Bridge-Design and  
Fabrication, E. J. Shields, CE:Feb 66:52

Welded Steel Girders Selected for a Major  
Bridge after a Comparative Study, E. A.  
Stratton with K. K. Chen, CE:Feb 66:56

**GIRDERS**

Analysis of Suspended Curved Girder, Marcello  
H. Soto, ST1:Feb 66:21:4662

Limit Design of Continuous Reinforced Concrete  
Crane Girders, M.Z. Cohn, ST3:Jun 66:161:4850  
New York--Largest steel girder in N.Y.C. to  
support Madison Square Garden Center, CE:Sept  
66:102

Pennsylvania--Giant girder for generating  
station, CE:May 66:96

Steel Bridge Girders with Prestressed Com-  
posite Tension Flanges, Homer M. Hadley,  
CE:May 66:70

**GLASS FIBERS**

Fiberglass-Reinforced Plastics as Materials  
for Construction, Richard E. Chambers, CE:  
June 66:62

**GLUING**

The Prestressed Glued Joint for Steel Connec-  
tions, George Kostro, CE:Apr 65:75  
TR:131:294

**GOVERNMENT**

Candidates sought for White House Fellows,  
CE:Nov 66:97

Federal Water Pollution Control Laboratories,  
David H. Howells, SA2:Apr 66:43:4758

National Academy of Engineering forms com-  
mittee on public engineering policy, CE:Dec  
66:71

Role of the City Engineer in Urban Planning,  
Douglas W. Talbot, UP1:May 66:47:4826

What Happens When Metropolitan Areas Meet?  
Alan M. Voorhees, UP1:May 66:13:4811

White House Fellowship--A Year at the Top,  
Richard de Neufville, CE:Oct 66:44

**GOVERNMENT AGENCIES**

Architects chosen for Dept. of Defense office  
building, CE:Apr 66:82

Department of Housing and Urban Development  
needs qualified civil engineers, CE:Aug 66:98

Foreign Contracts-Subject to the Approval of  
AID, Julius Kaplan, CE:Mar 66:62

Dsc, Chester L. Lucas, CE:June 66:78

Navy needs construction men in Seabees,  
CE:July 66:87

Office of Solid Wastes established in Public  
Health Service, CE:Mar 66:104

The Review Function in Water Resources Devel-  
opment, Edmund H. Lang, PO1:Jan 66:39:4622

Supervision of Dams by State Authorities, T.  
W. Mermel, CE:Aug 66:50

The U.S. Air Force Conserves Natural Re-  
sources, Robert H. Curtin, CE:May 66:43

Value Engineering in Construction, A. J.  
Dell'Isola, CE:Sept 66:58

**GRAPHS (Charts)**

Analyses of Parameters of an Unconfined  
Aquifer, George J. Kriz, Verne H. Scott, and

Robert H. Burg, HY5:Sept 66:49:4901

Analysis of Data from Stepwise Throttled Pump  
Test, Gert Aron and Verne H. Scott, HY6:Nov  
66:95:4977



**GRAPHS (Charts) Continued**

- Buckling of Eccentrically Loaded Steel Columns, Seng-Lip Lee and S.C. Anand, ST2:Apr 66:351:4796
- Dimensionless Parameters for Homogeneous Earth Slopes, James M. Bell, SM5:Sept 66:51:4904
- Eccentrically Loaded Trapezoidal or Round Footings, Alfred Zweig, ST1:Feb 66:161:4670
- Graphical Determination of Confined Aquifer Parameters, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY5:Sept 66:39:4899
- Graphical Solution for Branching Pipe Flows, Claud C. Lomax, PL1:Mar 66:13:4718
- Improved Design of Fluid Networks with Computers, Thomas A. Marlow, R. Logan Hardison, Henry Jacobson, and Gilbert E. Biggs, HY4:Jul 66:43:4866
- Influence Lines for Beams on Elastic Foundations, K.T. Sundara Raja Iyengar and S. Anantharamu, ST3:Jun 65:45:4359
- TR:131:643
- Nonlinear Differential Equation of Drain Spacing, William T. Moody, IR2:Jun 66:1:4835
- On the Bending of Spherical Shells, P. Stern and E.Y.W. Tsui, EM3:Jun 66:53:4857
- Torsional Restraint of Lateral Buckling, Arthur C. Taylor, Jr. and Morris Ojalvo, ST2:Apr 66:115:4776
- Water-Hammer Charts Including Fluid Friction, David Stephenson, HY5:Sept 66:71:4908
- GRAVITY DAMS**
- New Shapes for Arch Dams, J. Laginha Serafim, CE:Nov 66:38
- GREAT LAKES**
- Vertical Control on the Great Lakes, Gilbert E. Ropes, SU1:Apr 65:35:4289
- TR:131:561
- GROUND WATER**
- Analyses of Parameters of an Unconfined Aquifer, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY5:Sept 66:49:4901
- Analysis and Application of the Step-Drawdown Test, Donald H. Lennox, HY6:Nov 66:25:4967
- Areal Variations of Mean Annual Runoff, Allen G. Hely, HY5:Sept 64:61:4030
- TR:131:41
- Development of Ground Water in Hawaii, Leslie J. Watson, HY6:Nov 64:185:4144
- TR:131:401
- Electric Piezometer for Field Installation, Raymond Lundgren, CE:Aug 66:52
- Flow from Infiltration Basins to Drains and Wells, Jacob Bear and Carol Braester, HY5:Sept 66:115:4911
- Graphical Determination of Confined Aquifer Parameters, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY5:Sept 66:39:4899
- Ground-Water Models Solved by Digital Computer, Irwin Remson, Charles A. Appel, and Raymond A. Webster, HY3:May 65:133:4330
- TR:131:855

**Inflow Hydrographs from Large Unconfined**

- Aquifers, Hassan Ali Ibrahim and Wilfried Brutsaert, IR2:Jun 65:21:4357
- TR:131:864
- Kaweah River Water Rights Settlement by Purchase, Stanley M. Barnes, IR1:Mar 66:55:4729
- Nonlinear Differential Equation of Drain Spacing, William T. Moody, IR2:Jun 66:1:4835
- Precipitation of Iron in Aerated Ground Waters, Mriganka M. Ghosh, John T. O'Connor, and R.S. Engelbrecht, SA1:Feb 66:199:4687
- Salt-Water Interface Near a Fresh-Water Canal, Norbert L. Ackermann and Pachern Sridurongkatum, HY6:Nov 64:97:4135
- TR:131:381
- Steady-State Theories for Drainage, Don Kirkham, IR1:Mar 66:19:4707
- Tile Drainage Performance, Coachella Valley, California, Arthur F. Pillsbury, J.R. Spencer, William R. Johnston, and L.O. Weeks, IR2:Jun 65:1:4344
- TR:131:9
- Two-Dimensional Infiltration and Wetting Fronts, Sadik Toksoz, Don Kirkham, and E. Robert Baumann, IR3:Sep 65:65:4477
- TR:131:514
- Water for the World, M.D. Morris, William E. Wood, James J. Geraghty, James Gould, Gordon R. Williams, Donald F. Othmer, Donald R. Lueder, Malcolm Pirnie, Jr., and Arthur C. Ford, SA1:Feb 65:1:4220
- TR:131:802
- GROUTING**
- Creep in Grouted Sleeve Splices of Reinforcing Bars, Don Ivey, CE:Aug 66:54
- Design of Karadj Arch Dam, Jan A. Veltrop and Roman P. Wengler, PO1:Mar 64:1:3827
- TR:131:213
- Foundations on Fissured Limestone--How They Were Selected, Henry M. Reitz, CE:Sep 65:52
- TR:131:543
- Grouting a Dam Cutoff in Cavernous Limestone, Leland F. Grant and John S. Winefordner, CO3:Sept 66:1:4894
- Grouting Manmade Islands--Chesapeake Bay Bridge, Byron J. Prugh, CO1:Jan 66:37:4621
- North Carolina--Controlling Leakage from Cowans Ford Dam, Joe T. Moore, CE:Jun 65:52
- TR:131:357
- HARBOR FACILITIES**
- Optimum Size Seaport, Carl H. Plumlee, WW3:Aug 66:1:4880
- Sweden--Building Foundation Built as a Caisson for Port Storage in Stockholm, Hal W. Hunt, CE:Jan 65:60
- TR:131:339
- HARBORS**
- Breakwater from No-Cost Fill in Flushing Bay, N.Y., Bogos Torkoglu, CE:July 66:58
- Functional Planning of Bulk Material Ports, Leonard S. Oberman, WW2:May 65:17:4310
- TR:131:88
- Improved facilities for Newport News Shipbuilding Co., CE:May 66:92

**HARBORS Continued**

- Ocean Wave Force Instrumentation, Thomas L. Russell, Volkmar Schoettie, and Robert G. Chown, WW4:Nov 66:1:4978
- Offshore Tanker Terminal in Greece, D.L. Poppy, CE:Mar 66:59
- Optimum Size Seaport, Carl H. Plumlee, WW3:Aug 66:1:4880
- Preliminary Design of Rubble-Mound Structures, Lester A. Tinkham, CE:Aug 66:60
- "Placed-Stone" Jetty, Stone-Weight Coefficients, Harold A. Kidby, Samuel B. Powell, and Arthur L. Roberts, WW4:Nov 64:77:4134  
TR:131:203
- The Structural Action of Pile Cluster Dolphins, David G. Elms and Werner E. Schmid, WW4:Nov 65:11:4529  
TR:131:816
- Wave-Induced Oscillations in Harbors, Fred-eric Raichlen and Arthur T. Ippen, HY2:Mar 65:1:4241  
TR:131:183

**HEATING**

- Viscoelastic Stresses for Moving Temperature Fields, EM2:Apr 66:25:4766

**HIGH-STRENGTH STEELS**

- Wood Beams Prestressed with Bonded Tension Elements, John Peterson, ST1:Feb 65:103:4218  
TR:131:379

**HIGHWAYS**

- Africa--Highway across Sahara planned, CE:June 66:98
- American Road Builders Association annual convention, Denver, Feb. 20-23, CE:Apr 66:78
- Asphalt and Scenery on New York State's Northway, CE:Aug 66:46
- Asphalt Pavement placed and Compacted in Thick Lifts, Carl E. Minor, CE:May 66:60
- Cascade Orchards Bridge--a Partially Prestressed Continuous Three-Span Bridge, Arvid Grant, CE:Aug 66:62
- Cement-Treated Subbase Practice in U.S. and Canada, Edward L. Kawala, HW2:Oct 66:75:4947
- Characteristics of Soil-Asphalt as a Rate Process, M. Abdel-Hady and Moreland Herrin, HW1:Mar 66:49:4719
- The Civil Engineer in Rapid Transit, John E. Everson, CE:Jan 66:60
- Creative Highway Design, Robert W. Sweet, CE:Dec 66:36
- Dsc, CE:Aug 66:74, on need for beautiful highway bridges designed by engineers
- Dsc, Homer M. Hadley, CE:Nov 66:77
- Effect of Floods and Obsolescence on Bridge Life, Manuel A. Benson and N.C. Matalas, HW1:Jan 65:55:4208  
TR:131:830
- Efficient Earth Moving--Job Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44
- Electric Controls for Laying Smooth Pavements, R.L. Peurifoy, CE:Sep 65:56  
TR:131:757

- Ethetics for the Highway Engineer, Gordon L. Kirjassoff, CE:Jan 66:69
- Dsc, Emery Hertelendy, CE:Mar 66:74
- Leon Goodman, CE:Apr 66:65
- Factors Considered in Urban Transportation Planning, Charles G. Beer, HW2:Dec 65:51:4582  
TR:131:874
- Financing Future Intercity Transportation Systems, Ronald W. Pulling, HW1:Jan 65:1:4187  
TR:131:817
- Highway Equipment--Wheelbarrow to Slip-Form Paver, in PCA 50th Anniversary Symposium, CE:Mar 66:32
- Highway Plans from Photogrammetrically-Compiled Maps, Lewis E. Parker, SU1:Apr 64:31:3859  
TR:131:364
- Highway Research Board awards contract on national highway needs, CE:Aug 66:96
- Highway Research Board's annual meeting, Jan 17-21, Wash, D.C., CE:Feb 66:88
- Highway Safety Elements in Aesthetic Design, James A. Head, HW2:Oct 66:15:4918
- Highways from Yesterday to Tomorrow, PCA 50th Anniversary Symposium, CE:Mar 66:32
- Hydraulic Efficiency in Culvert Design, Fred W. Blaisdell, HW1:Mar 66:11:4709
- International banks invest over \$2 billion in world highways, CE:July 66:85
- Interpretation on Costs, Matthew J. Betz, HW2:Oct 66:49:4937
- Interstate = Benefits (Lives + Dollars), Frank Schneller, CE:May 65:33  
TR:131:313
- Minnesota--One mile of highway to be pre-stressed, CE:Feb 66:92
- Modulus of Deformation of Pavement Bases, John P. Nielsen, AT1:Jan 66:95:4613
- New Jersey--Contract for widening portions of the Turnpike, CE:June 66:99
- New Techniques in Alinement Design and Stake-out, Jack E. Leisch, HW1:Mar 66:23:4711
- Optimum Design of Constant-Depth Plate Girders, Reza Razani and George G. Goble, ST2:Apr 66:253:4787
- Peru-World Bank grant for Trans-Andean Highways, CE:Jan 66:94
- Philosophy of Culvert Design, R. Robinson Rowe, HW1:Mar 66:71:4732
- Philosophy of Service Life in Culvert Design, Lester A. Herr, HW1:Mar 66:1:4705
- Plan for Darien Gap in Pan-American road, CE:Oct 66:93
- Planning Public Mass Transportation, Henry D. Quinby, HW1:Jan 65:15:4190  
TR:131:827
- Preformed Elastic Expansion Joints for Highway Structures, Richard W. Albrecht, CE:Dec 66:56
- Preserving Survey Monuments Despite Highway Construction, Winfield H. Eldridge, CE:May 65:40
- Dsc: Richard Mayer, CE:Sep 65:74  
TR:131:321
- Signboard Footings to Resist Wind Loads, Don L. Ivey with Leon Hawkins, CE:Dec 66:34
- Snowshed Location and Design, Peter A. Schaerer HW2:Oct 66:21:4923



**HIGHWAYS Continued**

Social and Economic Factors in Highway Location, E. Wilson Campbell, HW2:Oct 66:35:4926  
The Systems Approach to Traffic Safety, Rex M. Whitton, CE:Sept 66:40

Dsc, Wilson T. Ballard, CE:Dec 66:61  
Tagus River Bridge--for Highway and Railway Traffic, R.M. Boynton, CE:Feb 66:34  
Technological Aspects of Urban Transportation, Donald S. Berry and Paul W. Shuldiner, HW1:Jan 64:53:3768

TR:131:205

Terminal Planning For Future Highways; Progress Report of the Committee on Terminals, Highway Division, ASCE, George W. Blomme, Chairman, HW2:Oct 66:61:4944

Traffic Accident Study on Milwaukee Expressway, Bruce A. Lind and H. Hong, HW1:Jan 65:25:4205

TR:131:810

Traffic Assignment by the Maximum Principle, Tsung-chang Yang and Robert R. Snell, HW2:Oct 66:1:4917

Transportation Centers, Wilbur S. Smith, UP1:Jul 65:19:4396

TR:131:137

Urban Atmospheric Pollution, Albert F. Bush, CE:May 65:66

Dsc: Herbert E. Clark, Jr., CE:Jul 65:76;  
M.I. Goldman, Aug 65:74; Author's reply, CE:Aug 65:75

TR:131:325

Urethane Foam for Pressure-Relief Joints at Bridges, E. J. O'Connor, CE:Oct 66:37  
Virginia--Lift span floated to highway bridge in Hopewell, CE:Nov 66:98

**HISTORY**

The Amazing Pennsylvania Canals, W.H. Shank, CE:Jan 65:66

TR:131:57

Brown's Timber Railroad Bridges, Karl Cullman, Max Steinhaus, translator, CE:Nov 66:72

The Cement Industry in the U.S. & Canada, in PCA 50th Anniversary Symposium, CE:Mar 66:32

Electronic Computation: Past, Present, Potential, Elwyn H. King, ST6:Dec 66:3:5000  
Highway Equipment--Wheelbarrow to Slip-Form Paver, in PCA 50th Anniversary Symposium, CE:Mar 66:32

Highways from Yesterday to Tomorrow, in CPA 50th Anniversary Symposium, CE:Mar 66:32

History and Techniques of Modern Urban Planning, Wolfgang G. Roeseler, UP1:May 66:5:4810  
The Hydrologic Cycle, A.K. Biswas, CE:Apr 65:70

Dsc: A.K. Biswas, CE:Sep 65:73

TR:131:273

Landmarks in American civil engineering listed, CE:Nov 66:88

Ohio--Sciotoville Railroad Bridge honored with historical marker, CE:Feb 66:88

Corr., July 66:70

Public Works in Ancient Mesopotamia, Alfred W. Maner, CE:July 66:50

See also Department "Benchmarks of Civil Engineering History" in each issue of CIVIL ENGINEERING beginning with December 1966

**HOMOLOGY**

Specification Tolerances for Turbine Homology, Edward J. Groscurth, PO1:Jan 66:55:4625

**HOSPITALS**

A Children's Hospital for Poland with Research and Teaching Facilities, Witold Pytowski, CE:Nov 66:64

**HOT WEATHER CONSTRUCTION**

Hazards of Hot-Weather Concreting, William A. Mowery, CE:Aug 66:56

**HOT-WIRE ANEMOMETERS**

Flow Direction Measurement by Hot-Wire Anemometry, J.W. Delleur, EM4:Aug 66:45:4870

**HYDRAULIC JUMP**

Dividing Flow in an Open Channel, Shiu Wai Law and Alan J. Reynolds, HY2:Mar 66:207:4730

Flow Over a Dentated Sill in Open Channel, Walter Rand, HY5:Sept 66:135:4913

Flow Over a Vertical Sill in an Open Channel, Walter Rand, HY4:Jul 65:97:4408

TR:131:794

Submerged Hydraulic Jump, Nallamuthu Rajaratnam, HY4:Jul 65:71:4403

TR:131:633

**HYDRAULICS**

Abstracted Bibliography on Erosion of Cohesive Materials: Task Committee on Erosion of Cohesive Materials, Committee on Sedimentation, ASCE, Frank D. Masch, HY2:Mar 66:243:4746

Analog Modeling the California Delta System, James A. Harder and John O. Nelson, HY4:Jul 66:1:4862

Analogue Procedure for Determination of Virtual Mass, O.C. Zienkiewicz and B. Nath, HY5:Sep 64:69:4042

TR:131:193

Analyses of Parameters of an Unconfined Aquifer, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY3:Sept 66:49:4901

Analysis and Application of the Step-Drawdown Test, Donald H. Lennox, HY6:Nov 66:25:4967

Analysis of Data from Stepwise Throttle Pump Test, Gert Aron and Verne H. Scott, HY6:Nov 66:95:4977

Areal Variations of Mean Annual Runoff, Allen G. Hely, HY5:Sep 64:41:4030

TR:131:41

ASCE Hydraulics Division annual conference, Madison, Wis., Aug. 24-26, Program, CE:June 66:80

Bed Forms Due to a Fluid Stream, Harry M. Hill, HY2:Mar 66:127:4724

Bed-Load Transport at High Shear Stress, Kenneth C. Wilson, HY6:Nov 66:49:4968

## HYDRAULICS Continued

- Boundary Layer Development and Spillway Energy Losses, Frank B. Campbell, Robert C. Cox, and Marden B. Boyd, HY3:May 65:149:4331  
 TR:131:872
- Canal Discharge Measurements with Radioisotopes, Jack C. Schuster, HY2:Mar 65:101:4258  
 TR:131:359
- Capacity Tests in Large Concrete-Lined Canals, Paul J. Tilp, HY3:May 65:189:4337  
 TR:131:846
- Channel Gradients Above Gully-Control Structures, David A. Woolhiser and Arno T. Lenz, HY3:May 65:165:4333  
 TR:131:619
- Characteristics of MI Backwater Curves, Nagar S. Lakshmana Rao and K. Sridharan, HY6:Nov 66:131:4985
- Computer Analysis of Overland Flow, James R. Morgali and Ray K. Linsley, HY3:May 65:81:4325  
 TR:131:857
- Critical Analysis of Open-Channel Resistance, Hunter Rouse, HY4:Jul 65:1:4387  
 TR:131:851
- Design Drouth Criteria, Robert S. Gooch, HY2:Mar 66:233:4731
- Determination of Water Use by Phreatophytes and Hydrophytes, G.H. Hughes and Charles C. McDonald, HY2:Mar 66:63:4714
- Determining Bank Storage of Lake Mead, Paul A. Richard, IR1:Mar 65:141:4268  
 TR:131:639
- Development of Ground Water in Hawaii, Leslie J. Watson, HY6:Nov 64:185:4144  
 TR:131:401
- Diffusion of Sediment in a Submerged Jet, Surya Rao Singamsetti, HY2:Mar 66:153:4726
- Dispersion and Adsorption in Porous Media Flow, Robert B. Banks and Iqbal Ali, HY5:Sep 64:13:4002  
 TR:131:690
- Distribution of Head at a Rectangular Conduit, Satya Prakash Garg, HY4:Jul 66:11:4863
- Distribution System Equalizing Storage Hydraulics, M.B. McPherson and R. Prasad, HY6:Nov 66:151:4987
- Dividing Flow in an Open Channel, Shiu Wai Law and Alan J. Reynolds, HY2:Mar 66:207:4730
- Drop-Box Weir for Sediment-Laden Flow Measurements, Clifton W. Johnson, Howard D. Copp, and Roy E. Tinney, HY5:Sept 66:165:4916
- Effect of Secondary Currents on Sediment Transport in a Corner, Chao-Lin Chiu and John E. McSparran, HY5:Sept 66:57:4905
- Effect of Spur Dikes on Flow Through Contractions, E. Robert Hedman, HY4:Jul 65:155:4412  
 TR:131:722
- Environmental Effects of Flood Plain Regulations, Eugene W. Weber and Walter G. Sutton, HY4:Jul 65:59:4402  
 TR:131:805
- Equilibrium Depth of Scour in Long Constrictions, Saburo Komura, HY5:Sept 66:17:4898

- Erosion and Deposition of Cohesive Soils, Emmanuel Partheniades, HY1:Jan 65:105:4204  
 TR:131:319
- Errors in Piezometric Measurement, William W. Emmett and James R. Wallace, HY6:Nov 64:45:4126  
 TR:131:217
- European Concepts of Sediment Transportation, John L. Bogardi, HY1:Jan 65:29:4195  
 TR:131:860
- Evaluation of Pipe Elbows as Flow Meters, John A. Replogie, Lloyd E. Myers, and Kenneth J. Brust, IR3:Sept 66:17:4888
- Exact Free Surface of Gravity Wells, Abdel-Aziz I. Kashef, HY4:Jul 65:167:4413  
 TR:131:798
- Experimental Study of Two-Layered Flow Through a Sink, D. Grant Huber and T.L. Reid, HY1:Jan 66:31:4618
- Experiments on Lateral Dispersion in Porous Media, Wen-Hsiung Li and Fu-Hsiung Lai, HY6:Nov 66:141:4986
- Experiments on Small Streams in Alluvium, Peter Ackers, HY4:Jul 64:1:3959  
 TR:131:373
- An Explicit Friction-Factor Relationship, Don J. Wood, CE:Dec 66:60
- Flood Proofing in a Flood Plain: A Stochastic Model, Viraf S. Bhavnagri and George Bugliarello, HY4:Jul 66:63:4868
- Flow from Infiltration Basins to Drains and Wells, Jacob Bear and Carol Braester, HY5:Sept 66:115:4911
- Flow in Culverts and Related Design Philosophies, Fred W. Blaisdell, HY2:Mar 66:19:4704
- Flow-Induced Vibrations--Experience of TVA with Hydraulic and Other Structures, James T. Price, CE:Apr 65:61  
 TR:131:245
- Flow Measurement Techniques for Hydraulic Dredges, Ernest P. Fortino, WW1:Feb 66:109:4683
- Flow Measurements at Columbia River Power Plants, Nicholas A. Dodge, HY2:Mar 65:125:4263  
 TR:131:760
- Flow Measurements with Fluorescent Tracers, John A. Replogie, Lloyd E. Myers, and Kenneth J. Brust, HY5:Sept 66:1:4895
- Flow Over a Dentated Sill in Open Channel, Walter Rand, HY5:Sept 66:135:4913
- Flow Over a Vertical Sill in an Open Channel, Walter Rand, HY4:Jul 65:97:4408  
 TR:131:794
- Flow Visualization Across Main Flow, A. Kumar, HY1:Jan 66:65:4626
- Fluctuating Total Head in a Viscous Sublayer, Calvin G. Clyde and Hans A. Einstein, EM2:Apr 66:251:4800
- Fluctuation of Pressure in Conduit Expansions, Hunter Rouse and Vladimir Jezdinsky, HY3:May 66:1:4815
- Formation of Ice Covers and Ice Jams in Rivers, Ernest Pariset, René Hausser, and André Gagnon, HY6:Nov 66:1:4965

## HYDRAULICS Continued

Geometrical Properties of Sand-Waves, M. Selim Yalin, HY5:Sep 64:105:4055

TR:131:76

Graphical Determination of Confined Aquifer Parameters, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY5:Sept 66:39:4899

Graphical Solution for Branching Pipe Flows, Claud C. Lomax, PL1:Mar 66:13:4718

Ground-Water Models Solved by Digital Computer, Irwin Remson, Charles A. Appel, and Raymond A. Webster, HY3:May 65:133:4330

TR:131:855

High Lift Locks: Some Hydraulic Problems and Solutions, Ernest Pariset and André Gagnon, WW4:Nov 64:55:4131

TR:131:131

Hydraulic Design of Pump Intakes, Ralph T. Hattersley, HY2:Mar 65:223:4276

TR:131:347

Hydraulic Efficiency in Culvert Design, Fred W. Blaisdell, HW1:Mar 66:11:4709

Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, G. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975

Hydraulic Performance Comparison of Centrifugal Pumps, Michael J. Suess, HY2:Mar 65:73:4255

TR:131:404

Hydraulic Resistance of Alluvial Streams, Frank Englund, HY2:Mar 66:315:4739

Hydraulic Studies of Jamaica Bay, Armando Balloffet and Arnold Kupferman, HY6:Nov 64:63:4133

TR:131:255

Hydrographs of Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4710

Hyperconcentrations of Suspended Sediment, Joseph P. Beverage and James K. Culbertson, HY6:Nov 64:117:4136

TR:131:430

Improved Design of Fluid Networks with Computers, Thomas A. Marlow, R. Logan Hardison, Henry Jacobson, and Gilbert E. Biggs, HY4:Jul 66:43:4866

An Inclined Plume, Garth S. Harris, EMI:Feb 65:7:4215

TR:131:416

Initial Motion Problem in Porous Media, James A. Liggett and Christos Hadjitheorou, HY3:May 65:61:4222

TR:131:408

Inland Delta Building Activity of Kosi River, Chintaman V. Gole and Shrikrishna V. Chitale, HY2:Mar 66:111:4722

International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:Jul 66:33:4864

Irrrotational Flow Over Spillways of Finite Height, John J. Cassidy, EM6:Dec 65:155:4591

TR:131:866

Laboratory Contributions to Channel Stabilization, Margaret S. Peterson, WW1:Feb 66:87:4673

Large-Scale Roughness in Open-Channel Flow, John B. Herbich and Sam Shulits, HY6:Nov 64:203:4145

TR:131:386

Loop Systems for Measuring Sand-Water Mixtures, Hans A. Einstein and Walter H. Graf, HY1:Jan 66:1:4608

Manifolds, Rotating and Stationary, Chester J. Ordon, SA1:Feb 66:269:4696

Measurement of Ruffled Water Surface Elevation, A.J. Raudkivi, HY2:Mar 65:65:4254

TR:131:288

Men, Models, Methods, and Machines in Hydrologic Analysis, Willard M. Snyder and John B. Stall, HY2:Mar 65:85:4256

TR:131:555

Modified Solutions for Decreasing Discharge Wells, Mahmoud A. Abu-Zied, Verne H. Scott, and Gert Aron, HY6:Nov 64:145:4142

TR:131:707

Movable Bed Model for River Structure Design, Howard E. Christian, Warren J. Mellema, and Walter M. Cinder, WW3:Aug 66:45:4883

Moving Interface in Coastal Aquifers, Jacob Bear and Gedeon Dagan, HY4:Jul 64:193:3988

TR:131:568

Mud Floods Related to the Irazu Volcano Eruptions, Carlos A. Ulate and Manuel F. Corrales, HY6:Nov 66:117:4984

Multivariate Technique for Synthetic Hydrology, Myron B. Fiering, HY3:Sep 64:43:4027

TR:131:107

Nappe Oscillation, H. Ivan Schwartz, HY6:Nov 64:129:4138

TR:131:71

Needed Research Projects in Surface Water Hydrology, Task Committee on Development of Research Projects in Surface Water Hydrology, Hydraulics Division, ASCE, Carl W. Morgan, Chmn., HY6:Nov 66:101:4982

Nomenclature for Bed Forms in Alluvial Channels: Report of the Task Force on Bed Forms in Alluvial Channels, ASCE, John F. Kennedy, Chmn., HY3:May 66:51:4823

Non-Newtonian Flows--Their Value in Civil Engineering, George Bugliarello, CE:Aug 65:68

TR:131:509

Numerical Solution to a Dispersion Equation, Nobuhiro Yotsukura and Myron B. Fiering, HY5:Sep 64:83:4046

TR:131:444

Philosophy of Culvert Design, R. Robinson Rowe, HW1:Mar 66:71:4732

Preliminary Design of Rubble-Mound Structures, Lester A. Tinkham, CE:Aug 66:60

Pressure Distribution on Spillway Flip Buckets, Tio-Chun Chen and Yun-Sheng Yu, HY2:Mar 65:51:4251

TR:131:776

Pressure Pulsations in Flow Through Branched Pipes, David L. Appel and Yun-Sheng Yu, HY6:Nov 66:179:4988

Processing Streamflow Data; Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F.J. Flynn, Chmn., HY2:Mar 66:145:4725

## HYDRAULICS Continued

- Properties of Porous Media Affecting Fluid Flow, R.H. Brooks and A.T. Corey, IR2:Jun 66:61:4855
- Remote Conversational Computing in Civil Engineering, S.H. Haackel and M.D. Sinkoff, CE: Apr 66:39
- Desc, Morton B. Lipetz, CE:June 66:79
- Resistance Relationships for Alluvial Channel Flow, R.J. Garde and Ranga K.G. Raju, HY4: Jul 66:77:4869
- Resistance to Laminar Flow Through Porous Media, Ralph R. Rumer, Jr. and Philip A. Drinker, HY5:Sept 66:155:4914
- River Flood Flows, Forecasts and Probabilities, Michael C. Quick, HY3:May 65:1:4312
- TR:131:546
- Salt-Water Interface Near a Fresh-Water Canal, Norbert L. Ackermann and Pachern Sridurongkatum, HY6:Nov 64:97:4135
- TR:131:381
- Sediment Transportation Mechanics: Initiation of Motion: Progress Report of the Task Committee on Preparation of Sedimentation Manual, ASCE, Vito A. Vanoni, Chmn., HY2:Mar 66: 291:4738
- Sequential Generation of Rainfall and Runoff Data, Ven Te Chow and S. Ramaseshan, HY4: Jul 65:205:4416
- TR:131:696
- Simple Apparatus for Producing Model Tides, Johan Albert Zwamborn, HY2:Mar 65:39:4250
- TR:131:283
- A Simple Method for Determining Water-Surface Profiles, J.F. Harp, CE:Oct 65:85
- Desc: S.E. Rantz, CE:Mar 66:74; George R. Oliger, CE:Mar 66:86
- Simplified Solution for Decreasing Flow in Wells, Gert Aron and Verne H. Scott, HY5: Sep 65:1:4459
- TR:131:675
- Single-Port Suction Manifolds, Ronald E. Nece, Peter P. Goldstern, and Jared L. Black, HY1: Jan 66:43:4620
- Spectral Analysis of Sand Waves, Carl F. Nordin, Jr. and James H. Algert, HY5:Sept 66:95: 4910
- Spillway Discharge Coefficients for Rock Island Dam, Claud C. Lomax, HY3:May 65:19:4320
- TR:131:539
- Stability of an Overfall Founded on Permeable Soils, Subba Rao Gutti, HY3:May 66:37:4821
- Storm Loss Rates for Regions with Limited Data, David H. Pilgrim, HY2:Mar 66:193:4728
- Straight Drop Spillway Stilling Basin, Charles A. Donnelly and Fred W. Blaisdell, HY3:May 65: 101:4328
- TR:131:732
- Study of Static Pressure Along a Rough Boundary, J.L. Chao and Virgil A. Sandborn, HY2: Mar 65:193:4269
- TR:131:337
- Submerged Hydraulic Jump, Nallamuthu Rajaratnam, HY4:Jul 65:71:4403
- TR:131:633
- Tacitly Maximized Small Watershed Flood Estimates, Brian M. Reich and Lourens A.V. Hiemstra, HY3:May 65:217:4339
- TR:131:753
- Theoretical Aspects of Seepage from Open Channels, Herman Bouwer, HY3:May 65:37:4321
- TR:131:377
- Time in Urban Hydrology, Gene E. Willeke, HY1:Jan 66:13:4615
- Total Bed Material Transport, A. Alvin Bishop, Daryl B. Simons, and Everett V. Richardson, HY2:Mar 65:175:4266
- TR:131:471
- Tractive-Force Distribution in Open Channels, John Asher Replege and Ven Te Chow, HY2:Mar 66:169:4727
- Translation of Foreign Literature of Hydraulics: Eighth Progress Report of the Task Force on List of Translations of the Committee on Hydromechanics, ASCE, Jan C. Van Tienhoven, Chmn., HY2:Mar 66:53:4713
- Turbulence Measured by Electrokinetic Transducers, Hsing Chuang and Jack E. Cermak, HY6: Nov 65:1:4526
- TR:131:743
- Turbulent Flow in Porous Media, J.C. Ward, HY5:Sep 64:1:4019
- TR:131:664
- Unlined Tunnels of the Snowy Mountain Hydro-Electric Authority, Australia, H.E. Dann, W. P. Hartwig, and J.R. Hunter, PO3:Oct 64:47: 4071
- TR:131:17
- Use of Baffles in Open Channel Expansions, Clifford D. Smith and James N.G. Yu, HY2:Mar 66:1:4703
- Use of Interrelated Records to Simulate Streamflow, Leo R. Beard, HY5:Sep 65:13:4463
- TR:131:559
- Vertical Drainage of an Unsaturated Soil, Irwin Remson, Ronald L. Drake, Samuel S. McNeary, and Edward M. Wallo, HY1:Jan 65:55:4196
- TR:131:223
- Viscous and Boundary Effects on Virtual Mass, Norbert L. Ackermann and Anat Arbhahirama, EM4:Aug 64:123:4014
- TR:131:230
- Water-Hammer Charts Including Fluid Friction, David Stephenson, HY5:Sept 66:71:4908
- Water Hammer Resulting From Cavitating Pumps, M.R. Carstens and T.W. Hagler, Jr., HY6:Nov 64:161:4143
- TR:131:277
- Water Resources Site Preservation on Federal Lands, Kenneth W. Sax, HY6:Nov 66:81:4976
- Wave-Induced Oscillations in Harbors, Frederic Raichlen and Arthur T. Ippen, HY2:Mar 65:1: 4241
- TR:131:183
- Wave-Plan Analysis of Unsteady Flow in Closed Conduits, Don J. Wood, Robert G. Dorsch, and Charlene Lightner, HY2:Mar 66:83:4716
- Weather Modifications, University of Wyoming, Merlin C. Williams, HY1:Jan 65:93:4203
- TR:131:391

**HYDRAULICS Continued**

Wind Driven Water Currents, W. Douglas  
Baines and Douglas J. Knapp, HY2:Mar 65:205;  
4270

TR:131:788

Withdrawal from Two-Layer Stratified Flows,  
Donald R. F. Harleman and Rex A. Elder,  
HY4:Jul 65:43:4398

TR:131:764

Yearly Sea Level Variations for the United  
States, Steady D. Hicks and William Shofnos,  
HY5:Sep 65:23:4468

TR:131:456

**HYDRODYNAMICS**

Flow in Culverts and Related Design Philosophies, HY2:Mar 66:19:4704

Resistance to Laminar Flow Through Porous Media, Ralph R. Rumer, Jr. and Philip A. Drinker, HY5:Sept 66:155:4914

Slow Viscous Flow of an Incompressible Suspension, Gerhard Oertel, EM5:Oct 65:145:4517

TR:131:494

Solution of Highly Curvilinear Gravity Flows, Theodor S. Strelkoff, EM3:Jun 64:195:3950

TR:131:355

Viscous and Boundary Effects on Virtual Mass, Norbert L. Ackermann and Anat Arbhahirama, EM4:Aug 64:123:4014

TR:131:230

Water Pressure on Dams Subjected to Earthquakes, Jorge I. Bustamante and Armando Flores, EM5:Oct 66:115:4954

**HYDROELECTRIC POWER GENERATION**

Alaska--Rampart Canyon Dam studied by Army Corps of Engineers, CE:Apr 66:79

Dsc. W. Irvine Low, July 66:69

Canada--Hydro Development of the Manicouagan and Outardes Rivers in Quebec, Benoit Baribeau, CE:Dec 65:53

TR:131:744

Canada--Manitoba to build Kettle Rapids Dam, CE:May 66:91

Colorado--Reclamation Firsts: Underground Power Plant at Morrow Point Dam, B. P. Bellport, CE:Feb 65:40

TR:131:105

Connecticut--Norwich to build third hydro plant, CE:June 66:100

Contract awarded for Yuba River Project, CE:June 66:100; Work starts, July 66:88

Contractor's View on Unlined Tunnels, Alfred M. Petrofsky, PO3:Oct 64:91:4086

TR:131:43

Cost and Economics of Maintenance of Turbine Runner Cavitation, Harold G. Hunt, PO1:Jan 66:107:4634

Ecuador--feasibility study of hydroelectric power development in Jubones and Paute River basins planned, CE:Aug 66:96

France--Rance River tidal dam finished, CE:May 66:91

Hydro Project Formulation: Results in the Southeast, Henry C. C. Weinkaff and Clement P. Lindner, PO1:Jan 66:15:4606

Hydropower Developments in India, Asit K. Biswas, PO2:Apr 66:31:4777

India--Pamba-Kakki project under contract, CE:Oct 66:82

India--Sabarigiri Hydroelectric Project under construction, CE:Dec 66:83

Laos--Canadian firm chosen for hydroelectric development, CE:Sept 66:98

New York--Proposal to use Storm King Reservoir, CE:Jan 66:93

North Carolina--Duke Power Co. plans large hydroelectric project, CE:Nov 66:100

Sidestream Intakes for Hydro Power in Scotland, Edgar Burke Wilson and John Alexander Stevenson, PO1:Jan 66:1:4601

Thailand--USBR team plans water project on Mekong River, CE:Sept 66:101

Tunnels for Hydroelectric Power in Tasmania, Henry H. Thomas and Lindsay S. Whitham, PO3:Oct 64:11:4065

TR:131:84

Unlined Tunnels of the Snowy Mountain Hydro-Electric Authority, Australia, H. E. Dann, W. P. Hartwig, and J. R. Hunter, PO3:Oct 64:47:4071

TR:131:17

Unlined Tunnels of the Southern California Edison Company, Ralph W. Spencer, Bruce R. Laverty, and Dean A. Barber, PO3:Oct 64:105:4087

TR:131:73

Value of Pumped Storage in a Thermal System, Wilbur R. Barrows, PO1:Jan 66:29:4619

Washington--Mossyrock Dam takes shape on Cowlitz River, CE:Sept 66:101

**HYDROGRAPHS**

Inflow Hydrographs from Large Unconfined Aquifers, Hassan Ali Ibrahim and Wilfred Brutsaert, IR2:Jun 65:21:4357

TR:131:864

**HYDROGRAPHY**

Hydrographs of Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4710

River Hydrology, or Fluviology, for Engineers, T. Blench, CE:Nov 66:56

**HYDROLOGY**

Cycles in Hydrologic Data, J. R. Crippen, CE:Jan 65:70

Dsc: Gordon R. Williams, CE:Mar 65:62

TR:131:86

Design Drought Criteria, Robert S. Gooch, HY2:Mar 66:233:4731

Determining Bank Storage of Lake Mead, Paul A. Rechard, IR1:Mar 65:141:4268

TR:131:639

Flow from Infiltration Basins to Drains and Wells, Jacob Bear and Carol Braester, HY5:Sept 66:115:4911

**HYDROLOGY Continued**

Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, G. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975

HYDRO, a Computer Language for Water Resources Engineering, George Buliarelo et al, CE:Nov 66:69

Hydrographs in Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4710

The Hydrologic Cycle, A.K. Biswas, CE:Apr 65:70

Dsc: A.K. Biswas, CE:Sep 65:73

TR:131:273

Hydrology of Water Quality Dilution Requirements, Malcolm F. Kallus and Jack W. Keeley, SA5:Oct 66:7:4930

International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:Jul 66:33:4864

Men, Models, Methods, and Machines in Hydrologic Analysis, Willard M. Snyder and John B. Stall, HY2:Mar 65:85:4256

TR:131:555

Moving Interface in Coastal Aquifers, Jacob Bear and Gedeon Dagan, HY4:Jul 64:193:3988

TR:131:598

Mud Floods Related to the Irazu Volcano Eruptions, Carlos A. Ulate and Manuel F. Corrales, HY6:Nov 66:117:4984

Multivariate Technique for Synthetic Hydrology, Myron B. Fierling, HY5:Sep 64:43:4027

TR:131:107

Needed Research Projects in Surface Water Hydrology, Task Committee on Development of Research Projects in Surface Water Hydrology, Hydraulics Division, ASCE, Carl W. Morgan, Chmn., HY6:Nov 66:101:4982

Philosophy of Culvert Design, R. Robinson Rowe, HW1:Mar 66:71:4732

Predicting Temperatures in Rivers and Reservoirs, William H. Delay and John Seaders, SA1:Feb 66:115:4675

River Flood Flows, Forecasts and Probabilities, Michael C. Quick, HY3:May 65:1:4312

TR:131:546

River Hydrology, or Fluviology, for Engineers, T. Blench, CE:Nov 66:56

Storm Loss Rates for Regions with Limited Data, David H. Pilgrim, HY2:Mar 66:193:4728

Time in Urban Hydrology, Gene E. Willeke, HY1:Jan 66:13:4615

Use of Interrelated Records to Simulate Streamflow, Leo R. Beard, HY5:Sep 65:13:4463

TR:131:559

**HYDROPHYTES**

Determination of Water Use by Phreatophytes and Hydrophytes, G.H. Hughes and Charles C. McDonald, HY2:Mar 66:63:4714

**ICE**

Digital Simulation of Heat Flow in Soils, Charles Carroll, Hilbert Schenck, Jr., and Wayne Williams, SM4:Jul 66:31:4865

Formation of Ice Covers and Ice Jams in Rivers, Ernest Pariset, René Hausser, and André Gagnon, HY6:Nov 66:1:4965

Ice Core for a Pervious Earth Dam 350 Miles North of Arctic Circle, Robert A. Dudley with Robert D. Buchanan and Howard Peoples, CE:Dec 66:48

**ILLINOIS**

Duplicate Locks for Illinois Waterway, William J. Santina and George B. Wesler, WW4:Nov 64:1:4118

TR:131:159

**INCENTIVES**

Product Control and Incentives, Edward A. Abdun-Nur, CO3:Sept 66:25:4900

**INCINERATION**

Air Pollution from Incinerators--Causes and Cures, Leo P. Flood, CE:Dec 65:44

TR:131:734

Arkansas--Sludge Burning at North Little Rock, Arnold J. Tyer, CE:Mar 65:54

TR:131:215

New York City plans huge incinerator to control air pollution, CE:Aug 66:95

Pennsylvania--Philadelphia dedicates new incinerator plant, CE:Sept 66:100

Proceedings for 1966 Incinerator Conference sponsored by ASME available, CE:June 66:96

**INDIA**

Hypower Developments in India, Asit K. Biswas, PO2:Apr 66:31:4777

Inland Delta Building Activity of Kosi River, Chintaman V. Gole and Shrikrishnan V. Chitale, HY2:Mar 66:111:4722

Irrigation in India: Past and Present, Asit K. Biswas, IR1:Mar 65:179:4277

TR:131:523

**INDUSTRIAL WASTES**

Environmental Standards of Bayport, Harry E. Bovay, Jr., UP1:May 66:35:4813

**INFLUENCE LINES**

Dynamic Influence Lines of Beams and Frames, Fernando Venancio Filho, ST2:Apr 66:371:4797

**INFORMATION RETRIEVAL**

Abstracted Bibliography on Erosion of Cohesive Materials: Task Committee on Erosion of Cohesive Materials, Committee on Sedimentation, ASCE, Frank D. Masch, Chmn., HY2:Mar 66:243:4746

EJC and Dept. of Defense to develop vocabulary base for information retrieval system, CE:Apr 66:74

Key Words and Abstracts for American Papers in the Proceedings of the 8th International Conference on Soil Mechanics and Foundations Engineering: Report by U.S. Natl. Committee for the Internatl. Soc. of Soil Mechanics and Foundations Engrg., ASCE, Bramlette McClelland, Chmn., SM1:Jan 66:137:4635



**INFORMATION RETRIEVAL Continued**

National Science Foundation and Federal Council for Science and Technology to study dissemination of scientific information, CE:July 66:85

Processing Streamflow Data: Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F.J. Flynn, Chmn., HY2:Mar 66:145:4725

**INSPECTION**

The Engineer in Charge of Construction, Louis W. Petulla, CE:Oct 66:48

Florida--Liaison Insures Quality Control for Vehicle Assembly Building at Cape Kennedy, Charles I. Orr, CE:Oct 65:56

TR:131:773

How to Improve Quality Control of Construction, Hal W. Hunt, CE:Oct 65:54

TR:131:698

How to Inspect Construction, Benjamin P. Cohen, CE:Oct 65:62

TR:131:591

Improved Inspection on the West Coast, John Steinbrugge, CE:Oct 65:79

TR:131:613

Legal Aspects of Quality Control, Robert B. Jarvis, CE:Oct 65:71

TR:131:600

Personnel for Inspection, Robert C. Briggs, CE:June 66:56

Quality Control in Construction, W.O. Hiltabidle, Jr., Bradford N. Clark, Charles E. Schaffner, John Nelson Linn, Ralph E. De Simone, Arnold H. Vollmer, Elmer B. Isaak, Leslie D. Long, Richard Q. Praeger, Hal W. Hunt, COI:May 65:141:4340

TR:131:660

Quality Controls for Steel Construction, Milton Brumer, CE:Oct 65:76

TR:131:608

Reverse-Scope for Underwater Inspection, CE:June 66:72

Supervision of Dams by State Authorities, T. W. Mermel, CE:Aug 66:50

A Training Program for Public Works Inspectors, Alfred R. Pagan, CE:May 66:52

Worlds of Two Giants, Paul M. Wright, PP2:Dec 66:1:4997

**INSULATION**

Alaska--Plastic Insulation vs. Deep Trenching for Seldovia Water Mains, Frank Nyman, CE:Mar 65:40

TR:131:207

**INTERCHANGES**

Traffic Accident Study on Milwaukee Expressway, Bruce A. Lind and H. Hong, HW1:Jan 65:25:4205

TR:131:810

**INTERNATIONAL CONFERENCE ON SOIL MECHANICS AND FOUNDATIONS ENGINEERING**

Key Words and Abstracts for American Papers in the Proceedings of the 6th International Conference on Soil Mechanics and Foundations Engineering: Report by U.S. Natl. Committee for the Internatl. Soc. of Soil Mechanics and Foundations Engrg., ASCE, Bramlette McClelland, Chmn., SMI:Jan 66:137:4635

**INTERNATIONAL HYDROLOGICAL DECADE**

International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:Jul 66:33:4864

**INTERSTATE HIGHWAY SYSTEM**

The Systems Approach to Traffic Safety, Rex M. Whitton, CE:Sept 66:40

Dsc, Wilson T. Ballard, CE:Dec 66:61

**IRON**

Australia--Iron ore complex to be developed

**IRRIGATION**

Analysis of Water Advance in Surface Irrigation, Yu-Si Fok and A. Alvin Bishop, IR1:Mar 65:99:4259

TR:131:669

Australia--Postpones Ord River Project, CE:Dec 66:81

Boundary Flow Considerations in the Design of Wells, Mostafa M. Soliman, IR1:Mar 65:159:4272

TR:131:391

Control of Weeds Harmful to Water Uses in the West, F. Leonard Timmons, WW1:Feb 66:47:4645

Design of Desilting Works for Irrigation

Systems, Floyd E. Dominy, IR4:Dec 66:1:4998

Determining Bank Storage of Lake Mead, Paul A. Rechard, IR1:Mar 65:141:4268

TR:131:639

Economic Problem of Irrigation Canals: Seepage Losses, Alfredo Bandini, IR4:Dec 66:35:5034

Effect of Irrigation Method on Water Conservation, Jack Keller, IR2:Jun 65:61:4364

TR:131:834

Effects of Competition on Efficiency of Water Use, Jay M. Bagley, IR1:Mar 65:69:4252

TR:131:547

Evaluation of Pipe Elbows as Flow Meters, John A. Replogle, Lloyd E. Myers, and Kenneth J. Brust, IR3:Sept 66:17:4888

Evaporation Reduction on Large Reservoirs, C. Earl Israelsen and Vaughn E. Hansen, IR1:Mar 65:93:4262

TR:131:784

Future Quantity and Quality of Colorado River Water, Raymond A. Hill, IR1:Mar 65:17:4244

TR:131:837

Implications of Water Rights for Engineers, Robert H. Marquis, IR1:Mar 66:49:4721

Irrigation in India: Past and Present, Asit K. Biswas, IR1:Mar 65:179:4277

TR:131:523

Irrigation Water Requirements in Texas, Charles B. Thompson, IR3:Sep 64:17:4040

TR:131:200



**IRRIGATION Continued**

Irrigation Water Requirements of Lawns, Tyler H. Quackenbush and John T. Phelan, IR2:Jun 65: 11:4350

TR:131:849

Kaweah River Water Rights Settlement by Purchase, Stanley M. Barnes, IR1:Mar 66:55: 4729

Las Vegas to host Irrigation and Drainage Div. Conference, Nov. 2-4, CE:Sept 66:86

New Type Weir Construction for Small Water-sheds, Neal E. Minshall and Ralph G. Spomer, IR1:Mar 65:11:4243

TR:131:189

Nonuniformity and Sprinkler Application Efficiency, David T. Howell, IR3:Sep 64:41:4052

TR:131:804

Operating a Sea Water Barrier Project, Arthur E. Bruington and Frederick D. Seares, IR1: Mar 65:11:74264

TR:131:636

Peru--Arequipa to build sewage treatment plant, CE:Feb 66:91

Planning Construction of Four-River Basin Project, Edwin W. Eden, Jr., IR3:Sept 66:1:4897

Progress in Waste Water Re-Use in Southern California, John D. Parkhurst, IR1:Mar 65:79: 4253

TR:131:569

Public Works in Ancient Mesopotamia, Alfred W. Maner, CE:July 66:50

Rapid Assessment of Sprinkler Performance, R. Culver and R. F. Sinker, IR1:Mar 66:1:4706

Relationships Among Sprinkler Uniformity Measures, Jack G. Beale and David T. Howell, IR1:Mar 66:41:4720

Remote Sensing for Estimating Soil Salinity, Victor I. Myers, David L. Carter, and William J. Rippert, IR4:Dec 66:59:5040

Rice Irrigation, Lee Chow, IR3:Sep 65:35:4472

TR:131:724

Salinity Problems and Management in River Systems, Arthur F. Pillsbury and Harry F. Blaney, IR1:Mar 66:77:4733

Sprinkler Nonuniformity Characteristics and Yield, David T. Howell, IR3:Sep 64:55:4053

TR:131:814

Transitory Irrigation Developments, Raymond A. Hill, CE:Mar 65:56

Dsc: Charles Green, CE:Jun 65:72, Author's reply, CE:Jun 65:72

TR:131:211

**JOINTS**

A440 Steel Joints Connected by A490 Bolts, Gordon H. Sterling and John W. Fisher, ST3: Jun 66:101:4845

Analysis of Bolted Butt Joints, John W. Fisher and John L. Rumpf, ST5:Oct 65:181:4513

TR:131:738

Behavior of Fasteners and Plates with Holes, John W. Fisher, ST6:Dec 65:265:4587

TR:131:854

Bolted Bridge Behavior During Erection and Service, Eugene Chesson, Jr., ST3:Jun 65:57: 4365

TR:131:120

Connections for Precast Members Can Be Trouble-Free, Paul Gordon, CE:July 66:62

Creep in Grouted Sleeve Splices of Reinforcing Bars, Don Ivey, CE:Aug 66:54

Criteria for Designing Bearing-Type Bolted Joints, John W. Fisher and Lynn S. Beedle, ST5:Oct 65:129:4511

TR:131:751

Dynamics of Separable Multistory Buildings, John S. Maybee, John E. Goldberg, and Ervin D. Herness, EM2:Apr 66:153:4788

Framing Connections for Square Structural Tubing, Richard N. White and Pen Jeng Fang, ST2:Apr 66:175:4782

Misalignment in Bolted Joints, Desi D. Vasarely and William N. Chang, ST4:Aug 65:1:4422

TR:131:460

Plastic Hinging in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5:Oct 66: 45:4931

Preformed Elastic Expansion Joints for Highway Structures, Richard W. Albrecht, CE:Dec 66:56

The Prestressed Glued Joint for Steel Connections, George Kostro, CE:Apr 65:75

TR:131:294

Repeated and Reversed Loading in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5:Oct 66:65:4932

Shear Strength of High-Strength Bolts, James J. Wallaert and John W. Fisher, ST3:Jun 65:99: 4368

TR:131:766

Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Brandley with W.H. Jervis, CE:Aug 66:58

Urethane Foam for Pressure-Relief Joints at Bridges, E. J. O'Connor, CE:Oct 66:37

**JUNCTIONS**

Dividing Flow in an Open Channel, Shiu Wai Law and Alan J. Reynolds, HY2:Mar 66:207:4730

**KAWEAH RIVER**

Kaweah River Water Rights Settlement by Purchase, Stanley M. Barnes, IR1:Mar 66:55:4729

**LABORATORIES**

Education in Materials for Civil Engineers, Frederick J. McGarry, CE:June 66:73

Federal Water Pollution Control Laboratories, David H. Howells, SA2:Apr 66:43:4758

Measurement of Ruffled Water Surface Elevation, A.J. Raudkivi, HY2:Mar 65:65:4254

TR:131:288

New National Bureau of Standards Laboratories to be dedicated Nov. 15, CE:Oct 66:89

Teaching Mechanics of Materials, J. V. Mullin, CE:June 66:67

**LAKE MEAD**

Determining Bank Storage of Lake Mead, Paul A. Rechard, IR1:Mar 65:141:4268

TR:131:639

**LAND USE**

Water Resources Site Preservation on Federal Lands, Kenneth W. Sax, HY6:Nov 66:81:4976

**LAW**

Engineers and the Practice of Law, Fred Vendig, CE:Oct 66:56

**LEGISLATION**

Action or Retreat for Engineers and Surveyors in Regulation of Professional Practice, William A. White, CE:Jan 66:54

Boxcar supply bill will relieve transportation shortage, CE:July 66:88  
Collective Bargaining for Municipal Engineers, Herman P. Zanon, CE:Sep 65:50

TR:131:577

Dsc, Arnold M. Cogan, CE:Aug 66:74 on ASCE's position on the New Jersey Planners Law, W. H. Wisely, Aug 66:74

Engineering Societies protest limiting architectural-engineering fees, CE:Nov 66:53

Implications of Water Rights for Engineers, Robert H. Marquis, IR1:Mar 66:49:4721

A Lawyer Looks at Stream Pollution, William Gross, CE:Apr 65:44

Dsc: B. F. Snow, CE:Aug 65:74

TR:131:243

Legal Aspects of Quality Control, Robert B. Jarvis, CE:Oct 65:71

TR:131:600

The Omnibus Rivers and Harbors and Flood Control Act of 1966 authorizes 42 projects, CE:Dec 66:82

Preserving Survey Monuments Despite Highway Construction, Winfield H. Eldridge, CE:May 65:40

TR:131:321

Principles For a Sound National Water Policy, CE:Dec 66:38

A Revolution in the Water Resources Field, William Whipple, Jr., CE:Dec 65:63

Dsc: Asit K. Biswas, CE:Apr 66:64

TR:131:750

Solid Waste Disposal Act passed by Congress, CE:Jan 66:93

Supervision of Dams by State Authorities, T. W. Mermel, CE:Aug 66:50

Water Resources Site Preservation on Federal Lands, Kenneth W. Sax, HY6:Nov 66:81:4976

**LEVELING**

Vertical Control on the Great Lakes, Gilbert E. Ropes, SU1:Apr 65:35:4289

TR:131:561

**LIBRARIES**

An engineering firms says it can prepare specifications in half the time, CE:Jan 66:56

**LICENSES**

Implications of Water Rights for Engineers, Robert H. Marquis, IR1:Mar 66:49:4721

**LIFT-SLAB CONSTRUCTION**

Prestressed Lift Slabs Withstand Fire, G. E. Troxell, CE:Sep 65:64

TR:131:762

Utah--Lift Slabs (in Salt Lake City) Cast under Plastic Cover for Raising in Spring, Robert Sawyer, CE:Jul 65:42  
TR:131:454

**LIGHTHOUSES**

Steel Offshore Towers as Navigation Aids, J. V. Ruffin, CE:Nov 65:72

Dsc: C. J. Posey, CE:Feb 66:74

Author's reply: CE:Feb 66:74

TR:131:645

Virginia--Construction of Chesapeake Light Station, John W. Fowler, CE:Nov 65:76

TR:131:650

**LIGHTWEIGHT CONCRETE**

International Congress on Prestressed Concrete Presents Challenges to American Engineers, Ben C. Gerwick, Jr., CE:Oct 66:62

**LIMIT-DESIGN METHOD (Structural)**

Augered-in Concrete Piles Support Boeing Aerospace Activities, Norman L. Liver, CE:Oct 66:60

Equilibrium Method for Limit Calculations of Frames, Douglas H. Clyde, EMI:Feb 66:169:4697

Limit Analysis of Notched Tension Specimens, Walid H. Rimawi, Seng-Lip Lee, and T. Mura, EMI:Feb 66:11:4636

Limit Design by Successive Moment Distribution, Carl Berwanger, ST1:Feb 66:405:4691

Limit Design of Continuous Reinforced Concrete Crane Girders, M. Z. Cohn, ST3:Jun 66:161:4850

Loading Effects in Structural Steel Design, Richard N. Wright and William J. Hall, ST5:Oct 64:11:4084

TR:131:195

Rotational Capacity of Reinforced Concrete Beams, W. Gene Corley, ST5:Oct 66:121:4939

Test of a Flat Slab Reinforced with Welded Wire Fabric, James O. Jirsa, Meta A. Sozen, and Chester P. Skess, ST3:Jun 66:199:4852

**LIQUIFIED GASES**

Storage Containers for Liquefied Natural Gas, P. J. Anderson and A. R. Khan, CE:Aug 65:65

TR:131:516

**LOADS (Forces)**

Automated Optimum Cost Building Design, Louis A. Hill, Jr., ST6:Dec 66:247:5013

Development of Arch Action in Arch Dams, K. V. Swaminathan, PO1:May 65:39:4329

TR:131:135

Edge Load Solutions for Conical Shells, Jack R. Vinson, EMI:Feb 66:37:4657

Elastic Loading of High Pressure Cylinders, Raymond Epain and Boris Vodar, EM5:Oct 64:363:4108

TR:131:775

Flexibility in Cylinder Groups Oscillated in Water, Alan D. K. Laird, WW3:Aug 66:69:4884

Flexibility of Axially-Loaded Nonuniform Members, Shou-ling Wang, ST2:Apr 66:195:4784

**LOADS (Forces) Continued**

Grain Size and Loading Effects on Steel, Russell C. Jones and John A. Hribar, EM5:Oct 64: 43:4073

TR:131:56

Impulsive Loading Theorems for Rigid-Plastic Continua, John B. Martin, EM5:Oct 64:27:4072

TR:131:746

Inelastic Response of Beams to Moving Loads, Teoktistos G. Toridis and Robert K. Wen, EM6: Dec 66:43:5028

Loading Effects in Structural Steel Design, Richard N. Wright and William J. Hall, ST5: Oct 64:11:4034

TR:131:195

Loads on Vertical Pile Groups, Heinz G. Juhl, ST2:Apr 66:103:4774

Measuring Instruments for Strutted Excavating, Lauritis Bjerrum, T. Cameron Kenney, and B. Kjaerneli, SM1:Jan 65:111:4120

TR:131:568

Mode Approximations for Impulsively-Loaded Rigid-Plastic Structures, J. B. Martin and Paul S. Symonds, EM5:Oct 66:43:4938

On the Bending of Spherical Shells, P. Stern and E. Y. W. Tsui, EM3:Jun 66:53:4857

Optimum Frameworks under Single Load System, Dhanjoo N. Ghista, ST5:Oct 66:261:4953

Pile Load Capacity: Estimates and Test Results, William S. Housel, SM4:Jul 66:1:4861

Plastic Analysis and Design of Non-Prismatic Members, Bruce G. Rogers and William H. Munse, Jr., ST5:Oct 65:299:4519

TR:131:366

Probability of Structural Failure Under Random Loading, Masanobu Shinokawa, EM5:Oct 64:147:4088

TR:131:165

Repeated and Reversed Loading in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5:Oct 66:65:4932

Signboard Footings to Resist Wind Loads, Don L. Ivey with Leon Hawkins, CE:Dec 66:34

Snow Loads for Roofs, Albert E. Anderson, CE:Jul 65:76

TR:131:474

Snowshed Location and Design, Peter A. Schaerer, HW2:Oct 66:21:4923

Transient Loading Tests on a Circular Footing, Vincent P. Drnevich and John R. Hall, SM6: Nov 66:153:4979

Two Degree-of-Freedom Elastoplastic Response to a Step Velocity Pulse, Robert H. Anderson, EM5:Oct 65:191:4524

TR:131:581

Vibration of a Radially Loaded Spherical Shell, Carl F. Long, EM2:Apr 66:235:4798

**LOCKS (Barriers)**

Alabama--Low Cement Content for Mass Concrete in TVA's Guntersville Lock, J. C.

McCraw, CE:Nov 65:70

TR:131:634

Arkansas--Low bid for Arkansas River dam near Fort Smith, CE:Apr 66:81

Belleville Locks on the Ohio River, R. B.

Howard, CE:Nov 65:51

TR:131:621

Duplicate Locks for Illinois Waterway, William J. Santina and George B. Wesler, WW4:Nov 64: 1:4118

TR:131:159

Engineering Measurements for Port Allen Lock, R. I. Kaufman and W. C. Sherman, Jr., SM5: Sep 64:221:4020

TR:131:29

Experimental Research on Lock Hydraulic Systems, John P. Davis and Thomas E. Murphy, WW1:Feb 66:17:4643

High Lift Locks: Some Hydraulic Problems and Solutions, Ernest Pariset and André Gagnon, WW4:Nov 64:55:4131

TR:131:131

**LOS ANGELES, CALIFORNIA**

Progress in Waste Water Re-Use in Southern California, John D. Parkhurst, TR1:Mar 65:79: 4253

TR:131:569

**MAINTENANCE**

Barge Decks Resurfaced with Asphalt, William P. Helbock, CE:Nov 65:54

TR:131:627

Connections for Precast Members Can Be Trouble-Free, Paul Gordon, CE:July 66:62

Cost and Economics of Maintenance of Turbine Runner Cavitation, Harold G. Hunt, PO1: Jan 66:107:4634

Internal Sand Cleaning of Pipelines, Robert A. Jenkins, PL1:Mar 66:1:4717

Maintenance--the Systems Approach, Thomas C. Kavanagh and Sidney M. Johnson, CE:July 66:31

New Jersey--A Revolution in Sewer Maintenance at Woodbridge, Charles W. Beagle, CE: Mar 65:34

TR:131:141

New York--Linseed-Oil Protection for New York State Thruway Bridges, Robert J. Walsh, CE:Jul 65:39

TR:131:457

North Carolina--Controlling Leakage from Cowans Ford Dam, Joe T. Moore, CE:Jun 65:52

TR:131:357

Putting a Movable Bridge Span Back in Swing, Remy P. Papp, CE:July 66:36

Structural Maintenance--the Third Element in the Structural Engineer's Professional Package, T. C. Kavanagh and S. M. Johnson, CE:May 65:52

TR:131:309

Suspender Ropes for George Washington Bridge Pass Rigid Tests but Need Maintenance, Irvine P. Gould and Henry A. Druding, CE:July 66:52

West Virginia--TV Proves Useful for Sewer Inspection by Corps of Engineers, Richard H. Hayes, CE:Jan 66:66

**MANAGEMENT**

Computer Selection: A New Role for the Civil Engineer, M. D. Sinkoff, CE:Jan 66:58

**MANAGEMENT Continued**

Condensation of report of ASCE Task Committee on Civil Engineering Management Education, Elmer K. Timby, CE:May 66:64

Consulting Practice in Surveying, William B. Wright, CE:Apr 66:61

Disc, Arthur B. Bronwell, CE:Apr 66:64 on education of engineers for management and leadership

Efficient Earth Moving--Job Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44

Estuarine Water Quality Management and Forecasting, Robert V. Thomann and Matthew J. Sobel, SA5:Oct 64:9:4116

TR:131:808

Guide to Development and Use of Electronic Computer Programs: Introduction, Steven J. Fenves, ST6:Dec 64:1:4151

TR:131:261

How Contractors Organize Their Cost Estimating and Control: Report by the Subcommittee on Organization of Estimating Departments, of the Committee on Estimating and Cost Control, ASCE, Elsie Eaves, Chmn., CO1:Jan 66:53:4631

Los Angeles section sponsors resources management seminar, CE:Dec 66:78

Management Education and ASCE, condensed report of Task Committee on Civil Engineering Management Education, Elmer K. Timby (chairman) CE:May 66:64

Manager and/or Engineer?, Vinton W. Bacon, CE:May 66:58

Producers' Council annual meeting on public needs in building products, CE:Nov 66:100

Qualities of an Executive (The Younger Viewpoint), Joseph Gerlt, CE:July 66:82

Scope of the Solid Waste Problem, Wesley E. Gilbertson, SA3:Jun 66:1:4833

Turning Engineers into Construction Men, Henry A. Letoile, CE:Apr 66:42

Disc, Van Rennselaer P. Saxe, CE:June 66:79

**MANAGEMENT SYSTEMS**

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

**MANIFOLDS**

Manifolds, Rotating and Stationary, Chester J. Ordon, SA1:Feb 66:269:4696

Single-Port Suction Manifolds, Ronald E. Nece, Peter P. Goldstern, and Jared L. Black, HY1:Jan 66:43:4620

**MAPPING**

Arctic Siting and Surveying, Max O. Laird, SU1:Apr 65:1:4287

TR:131:829

The Case of the Missing Curriculum, Kenneth S. Curtis, SU2:Jul 64:27:3963

TR:131:700

Chart Converts Bearings to Angles, Virgil F. Bryant, Jr., CE:Nov 66:76

Highway Plans from Photogrammetrically-Compiled Maps, Lewis E. Parker, SU1:Apr 64:31:3859

TR:131:364

A Research Program in Surveying and Mapping: Progress Report of the Research Committee of the Surveying and Mapping Division, ASCE. R. H. Moore, Chmn., SU1:Jan 66:25:4629

Reservoir Topography by Shoreline Plotting, David L. Crandall, SU1:Apr 64:39:3874

TR:131:579

Scribing Method Improves Maryland Road Mapping, CE:Apr 66:56

Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, SU1:Jan 66:1:4599

Surveying and Mapping for Water Resource Planning, Kurt W. Bauer, SU1:Apr 64:1:3855

TR:131:19

**MAPS**

Highway Plans from Photogrammetrically-Compiled Maps, Lewis E. Parker, SU1:Apr 64:31:3859

TR:131:364

**MARINAS**

Breakwater from No-Cost Fill in Flushing Bay, N.Y., Bogos Torikoglu, CE:July 66:58

Diffraction of Ocean Waves About a Breakwater, Charles T. Morrow, WW3:Aug 66:25:4882

Marinas and Yacht Clubs--Planning and Financing, Stephen M. Olko, CE:Jun 65:58

TR:131:353

**MASONRY**

Brick Bearing Walls for Multi-Story Structures, Robert D. Dikkers, with John C. Grogan, CE:Sept 66:76

Charts Simplify Reinforced-Masonry Design, J.N. Littlefield, CE:Aug 65:73

TR:131:485

Masonry Walls on Continuous Beams, Saky Rosenhaupt and Yehuda Sakal, ST1:Feb 65:155:4226

TR:131:504

**MASSACHUSETTS**

Regional Drought Frequency Analysis, William Whipple, Jr., IR2:Jun 66:11:4837

**MATERIALS**

An Applied Science of Materials for Civil Engineers, Edward M. Krokosky, CE:Jul 65:54

Disc, Archie Mathews, CE:Oct 65:81; Consuelo M. Hauser, CE:Oct 65:81

TR:131:436

Asbestos-Cement Pipe for a Tower, Yen H. Dong, CE:Oct 66:46

Ceramics as Structural Materials, Francis R. Shanley and William J. Knapp, ST4:Aug 65:47:4429

TR:131:403

Materials Control and Test Procedures, Robert F. Baker, CO3:Sept 66:17:4896

Thermal-Shock Effects on a Space Vehicle, Lewis Li-Tang Au and Donald J. Trent, EM4:Aug 65:1:4425

TR:131:525

**MATERIALS HANDLING**

- Moving 165 Million Tons for World's Highest Compacted Fill--Oroville Dam, R. C. McDowell, CE:Apr 66:26  
 Isc, E. M. T. Ryder, CE:Aug 66:73; Dsc & re:ly, Alfred R. Golze, CE, Aug 66:73

**MATERIALS TESTING**

- Education in Materials for Civil Engineers, Frederick J. McGarry, CE:June 66:73  
 Materials Control and Test Procedures, Robert F. Baker, CO3:Sept 66:17:4896  
 Photosensitive Plastics Extend the Range of Photoelastic Stress Studies, John P. Cook, CE:Nov 65:87  
 TR:131:711  
 Teaching Mechanics of Materials, J. V. Mullin, CE:June 66:67

**MATHEMATICS**

- Analysis of Contained Plastic Flow in Plane Solids, Alfredo H. S. Ang and Golin N. Harper, EM5:Oct 64:397:4113  
 TR:131:304  
 Heat Analysis - A Tensorial-Dimensional Approach, Sidney F. Borg, EM6:Dec 65:145:4584  
 TR:131:825  
 Impulsive Loading Theorems for Rigid-Plastic Continua, John B. Martin, EM5:Oct 64:27:4072  
 TR:131:746  
 Influence Functions for Beams on Elastic Foundations, Alexander Dodge, ST4:Aug 64:63:4002  
 TR:131:102  
 Men, Models, Methods and Machines in Hydrologic Analysis, Willard M. Snyder and John B. Stall, HY2:Mar 65:85:4256  
 TR:131:555  
 Model for Wave Motions in Axi-Symmetric Solids, Alfredo H. S. Ang and Johann H. Ralner, EM2:Apr 64:195:3878  
 TR:131:266  
 Operational Method for Pin-Jointed Trusses, Bennisuke Tanimoto, ST3:Jun 66:179:4851  
 Pressure Distribution of Spillway Flip Buckets, Tio-Chun Chen and Yun-Sheng Yu, HY2:Mar 65:51:4251  
 TR:131:776

**MATRICES**

- Analysis of Four-Legged Tower for Dynamic Loads, David P. Billington, William S. Gailther, and Alan M. Ebner, EM2:Apr 66:61:4769  
 Analysis of Laminated Shells of Revolution, Stanley B. Dong, EM6:Dec 66:135:5044  
 Analysis of Nonprismatic Continuous Structures, Thomas D. Y. Fok and Thomas F. Mosure, ST1:Feb 66:1:4647  
 Analysis of Vierendeel Truss with Inclined Chords, Hsien-San Tsang, ST5:Oct 66:147:4942  
 Behavior of Elastic Plastic Trusses with Unstable Bars, Giulio Maier, EM3:Jun 66:67:4858

- Buckling of Multistory Buildings, John E. Goldberg, EM1:Feb 65:51:4223  
 TR:131:60  
 Compact Solution of Doubly-Curved Shell Equation, Graham H. Powell, EM5:Oct 66:1:4927  
 Computer Analysis of Plane and Space Structures, Semih S. Tezcan, ST2:Apr 66:143:4780  
 Computer Analysis of the F-111 Wing Assembly, Joseph Antebi, Edwin C. Rossow, Indravadan K. Shah, and Jayant M. Shah, ST6:Dec 66:405:5020  
 Effect of Foreign Inclusions on Properties of Solids, Longin B. Greszczuk, EM6:Dec 66:63:5029  
 Finite Element Analysis of Axi-Symmetric Solids, Ray W. Clough and Yusef Rashid, EM1:Feb 65:71:4229  
 TR:131:98  
 Flexural Analysis of Coplanar Frames, Frederick P. Wiesinger, ST1:Feb 66:131:4669  
 Flow Graph Solutions of Band Matrix Problems, Chuan C. Feng and Larry J. Feeser, EM1:Feb 66:25:4656  
 I11-Conditioned Stiffness Matrices, Jayant M. Shah, ST6:Dec 66:443:5022  
 Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841  
 Loads on Vertical Pile Groups, Heinz G. Juhl, ST2:Apr 66:103:4774  
 Machine Computation of Trigonometric Functions, David Bushnell and Wayne A. Madsen, EM6:Dec 66:157:5046  
 Network Analysis of Structures, Frank L. Di Maggio and William R. Spillers, EM3:Jun 65:189:4376  
 TR:131:122  
 Operational Method for Pin-Jointed Trusses, Bennisuke Tanimoto, ST3:Jun 66:179:4851  
 Plane-Framework Methods for Plates in Extension, Alan L. Yettram and M. Hysain, EM1:Feb 66:157:4695  
 POST: Problem-Oriented Subroutine Translator, John W. Melin, ST6:Dec 66:179:5009  
 A seismic Design of Multistory Systems, E. F. Kokinopoulos, ST3:Jun 66:77:4842  
 Selective Inversion of Stiffness Matrices, James L. Tocher, ST1:Feb 66:75:4665  
 Some Improvements on Proposed Eigen-Matrix Method, Bennisuke Tanimoto, ST1:Feb 66:101:4667  
 Stability of Plates Using the Finite Element Method, Kanwar K. Kapur and Billy J. Hartz, EM2:Apr 66:177:4790  
 Structural Analysis by Networks, Matrices, and Computers, Steven J. Fenves, ST1:Feb 66:199:4674  
 Three-Dimensional Analysis of Tier Buildings, William Weaver, Jr. and Mark F. Nelson, ST6:Dec 66:385:5019

**MEASUREMENT**

- The Metric System Now, Frits H. Fenger, CE:Dec 65:49  
 TR:131:740

**MEASURING INSTRUMENTS**

Behavior of a Soil Mass Under Dynamic Loading, R. W. Sparrow and A. C. Tory, SM3:May 66: 59:4825

Canal Discharge Measurements with Radio-isotopes, Jack C. Schuster, HY2:Mar 65:101: 4258

TR:131:359

Consolidation of Slightly Overconsolidated Soils, Gerald Patrick Raymond, SM5:Sept 66:1: 4893

Design of a Differential Pore Pressure and Its Time Lag Characteristics, Jagdish Narain and Bhawani Singh, SM5:Sept 66:93:4909

Electric Piezometer for Field Installation, Raymond Lundgren, CE:Aug 66:52

Engineering Measurements for Port Allen Lock, R. I. Kaufman and W. C. Sherman, Jr., SM5:Sep 64:221:4020

TR:131:29

Errors in Piezometric Measurement, William W. Emmett and James R. Wallace, HY6:Nov 64:45:4126

TR:131:217

Flow Direction Measurement by Hot-Wire Anemometry, J. W. Delleur, EM4:Aug 66:45:4870

Flow Measurement Techniques for Hydraulic Dredges, Ernest P. Fortino, WW1:Feb 66:109: 4683

Flow Measurements at Columbia River Power Plants, Nicholas A. Dodge, HY2:Mar 65:125: 4263

TR:131:760

Flow Measurements with Fluorescent Tracers, John A. Replogle, Lloyd E. Myers, and Kenneth J. Brust, HY5:Sept 66:1:4895

Geodetic Precision in One Perspective, Theodore E. Wirtanen, SU1:Jan 66:11:4600

Measurement of Ruffled Water Surface Elevation, A. J. Raudkivi, HY2:Mar 65:65:4254

TR:131:288

Measuring Instruments for Strutt Excavating, Lauritis Bjerrum, T. Cameron Kenney, and B. Kjaernli, SM1:Jan 65:111:4210

TR:131:568

New Uses for Survey Instruments, P. Mignaval, CE:Jan 66:44

Ocean Wave Force Instrumentation, Thomas L. Russell, Volkmar Schoettle, and Robert G. Chown, WW4:Nov 66:1:4978

Self-Recording Soil Penetrometer, Bengt B. Broms and D. E. Broussard, SM1:Jan 65:53: 4200

TR:131:311

Simple Apparatus for Producing Model Tides, Johan Albert Zwamborn, HY2:Mar 65:39:4250

TR:131:283

Submerged Hydraulic Jump, Nallamuthu Rajaratnam, HY4:Jul 65:71:4403

TR:131:633

Tumut 2 Underground Power Plant, Ivor L. Pinkerton and Eric J. Gibson, PO1:Mar 64:33: 3835

TR:131:23

**MECHANICS**

Third Southeastern Conference on Theoretical and Applied Mechanics, Univ. of South Carolina, Mar. 31 and Apr. 1, CE:Mar 66:107

**MEMBRANES**

Elastic, Large Deflections of Annular Membranes, Archibald N. Sherbourne and William C. Lennox, EM2:Apr 66:75:4775

Large Deflection of Heated Plates, Marion W. Wilcox and Lewis E. Clemmer, EM6:Dec 64: 165:4176

TR:131:181

**METALS**

Indiana--Bethlehem Steel opens tin mill, CE:Mar 66:107

**METEOROLOGY**

ASCE Irrigation & Drainage Division holds Conference in Las Vegas, CE:Dec 66:72  
Irrigation and Drainage Division and American Meteorological Society cosponsor Weather Modification Meeting, Jan. 24-27, Denver, Colo., CE:Jan 66:80: report, Apr 66:72

**METRIC SYSTEM**

The Metric System Now, Frits H. Fenger, CE:Dec 65:49

TR:131:740

**MICHIGAN**

River and Laboratory BOD Rate Considerations, John J. Gannon, SA1:Feb 66:135:4681

**MICROSCOPY**

Education in Materials for Civil Engineers, Frederick J. McGarry, CE:June 66:73

**MILITARY ENGINEERING**

Military Engineering in Vietnam, Peter A. Corradi, CE:Nov 65:47

TR:131:617

Navy needs construction men in Seabees, CE:July 66:87

**MINING**

Australia--Iron ore complex to be developed, CE:Jan 66:96

First International Congress on Rock Mechanics, Jacob Feld, CE:Dec 66:58

Reassessing an Old Problem--Acid Mine Drainage, Ralph Porges, Lowell A. Van Den Berg, and Dwight Ballinger, SA1:Feb 66:69:4654

**MISSISSIPPI RIVER**

Bank Erosion in Soils of the Lower Mississippi Valley, Willard J. Turnbull, Ellis L. Krinitzky, and Frank J. Weaver, SM1:Jan 66:121:4632

Foreshore Protection, Lower Mississippi River, Rudolf Hertzberg, WW2:May 65:1:4305

TR:131:573

**MISSOURI RIVER**

Machine Tunneling on Missouri River Dams, Lloyd B. Underwood, CO1:May 65:1:4314

TR:131:780



## MODELS

Analog Modeling the California Delta System, James A. Harder and John O. Nelson, HY4: Jul 66:1:4862

Analysis of Biological Filter Variables, William S. Galler and Harold B. Gotaas, SA6:Dec 64:59:4174

TR:131:237

Analysis of Contained Plastic Flow in Plane Solids, Alfredo H. S. Ang and Goin N. Harper, EM5:Oct 64:397:4113

TR:131:304

Analysis of Four-Legged Tower for Dynamic Loads, David P. Billington, William S. Gaither, and Alan M. Ebner, EM2:Apr 66:61:4769

Behavior of Reinforced Concrete Columns with Slidesway, Edward O. Pfrang, ST3:Jun 66:225:4853

Behavior of Square Infilled Frames, Bryan Stafford Smith, ST1:Feb 66:381:4690

Bounding Plane Stress Solutions by Finite Elements, R. F. Hooley and P. D. Hibbert, ST1:Feb 66:39:4663

Characteristics of Soil-Asphalt as a Rate Process, M. Abdel-Hady and Moreland Herrin, HW1:Mar 66:49:4719

Discrete Dynamic Models for Elasto-Inelastic Beams, R. Wen and T. Toridis, EM5:Oct 64:71:4081

TR:131:187

Effect of Boundary Conditions on Shell Buckling, Leon R. L. Wang, L. Rodriguez-Agrait, and William A. Little, EM6:Dec 66:101:5035

Experimental Analysis of Continuous Folded Plates, Fred W. Beaufait and George A. Gray, ST1:Feb 66:11:4661

Experimental Research on Lock Hydraulic Systems, John P. Davis and Thomas E. Murphy, WW1:Feb 66:17:4643

Flood Proofing in a Flood Plain: A Stochastic Model, Viraf S. Bhavnagri and George Bugliarello, HY4:Jul 66:63:4868

Formation of Ice Covers and Ice Jams in Rivers, Ernest Pariset, René Hausser, and André Gagnon, HY6:Nov 66:1:4965

Generalized Kelvin-Voigt Used in Soil Dynamics Study, Bobby O. Hardin and Gordon D. Scott, EM1:Feb 66:143:4678

Ground-Water Models Solved by Digital Computer, Irwin Remson, Charles A. Appel, and Raymond A. Webster, HY3:May 65:133:4330

TR:131:855

Initial Imperfections in Biaxial Bending, Charles G. Culver, ST3:Jun 66:119:4846

Laboratory Contributions to Channel Stabilization, Margaret S. Peterson, WW1:Feb 66:87:4673

Men, Models, Methods and Machines in Hydrologic Analysis, Willard M. Snyder and John B. Stall, HY2:Mar 65:85:4256

TR:131:555

Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66:23:4936

Model Study of Dynamically Loaded Arch Structures, Don R. Denton and William J. Flathau, EM3:Jun 66:17:4848

Movable Bed Model for River Structure Design, Howard E. Christian, Warren J. Mellema, and Walter M. Cinder, WW3:Aug 66:45:4883

Multivariate Technique for Synthetic Hydrology, Myron B. Fiering, HY5:Sep 64:43:4027

TR:131:107

The Nature of Damping in Sands, Bobby O. Hardin, SM1:Jan 65:63:4206

TR:131:299

Orthokinetic Flocculation in Water Purification, Howard S. Harris, Warren J. Kaufman, and Ray B. Krone, SA6:Dec 66:95:5027

Plane-Framework Methods for Plates in Extension, Alan L. Yettam and M. Husain, EM1:Feb 66:157:4695

Predicting Structural Behavior Analytically, Edward O. Pfrang and Chester P. Sless, ST5:Oct 64:99:4110

TR:131:289

Properties of Porous Media Affecting Fluid Flow, R. H. Brooks and A. T. Corey, IR2:Jun 66:61:4855

Replica Modeling in Soil Dynamics, Peter S. Westine, SM6:Nov 66:169:4980

Rock Trap Experience in Unlined Tunnels, John J. Mattimore, E. Roy Tinney, and W. Weston Wolcott, PO3:Oct 64:29:4067

TR:131:33

A seismic Design of Multistory Systems, E. F. Koinopoulos, ST3:Jun 66:77:4842

Seismic Study of Arch Dams, J. Laginha Serafim and J. Oliveira Pedro, ST2:Apr 65:15:4284

TR:131:590

Simple Apparatus for Producing Model Tides, Johan Albert Zwamborn, HY2:Mar 65:39:4250

TR:131:283

Specification Tolerances for Turbine Homology, Edward J. Groseurth, PO1:Jan 66:55:4625

Spectral Analysis of Sand Waves, Carl F. Nordin, Jr. and James H. Algert, HY5:Sept 66:95:4910

Stochastic Model for Predicting Subsidence, Arnold L. Sweet and John L. Bogdanoff, EM2:Apr 65:21:4292

TR:131:59

Strength of Reinforced Concrete Folded Plate Models, Alexander C. Scordelis and Peter V. Gerasimenko, ST1:Feb 66:351:4688

Stresses in Hyperboloids under Edge Loadings, David G. Elms, David P. Billington, and Robert Mark, EM4:Aug 65:89:4441

TR:131:498

Study of Stability in the Hyperbolic Paraboloid, Kenneth M. Leet, EM1:Feb 66:121:4677

Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, SU1:Jan 66:1:4599

Turbulent Mixing Phenomena of Ocean Outfalls, Richard J. Frankel and James D. Cumming, SA2:Apr 65:33:4297

TR:131:728



**MODELS Continued**

- Use of Baffles in Open Channel Expansions,  
Clifford D. Smith and James N.G. Yu, HY2:  
Mar 66:1:4703  
Wave-Induced Oscillations in Harbors, Fred-  
eric Raichlen and Arthur T. Ippen, HY2:Mar 65:  
1:4241  
TR:131:183

**MOMENT DISTRIBUTIONS**

- Flexural Analysis of Coplanar Frames, Fred-  
erick P. Wiesinger, ST1:Feb 66:131:4669  
Limit Design by Successive Moment Distribu-  
tion, Carl Benuanger, ST1:Feb 66:405:4691

**MOMENTS**

- Analysis of Nonprismatic Continuous Struc-  
tures, Thomas D. Y. Fok and Thomas F.  
Mosure, ST1:Feb 66:1:4647  
Flexural-Torsional Buckling of Planar Frames,  
Alois J. Hartmann and William H. Munse, EM2:  
Apr 66:37:4767  
Inelastic Lateral Stability Under a Moment  
Gradient, Campbell Massey and F.S. Pitman,  
EM2:Apr 66:101:4779

**MONORAILS**

- Minnesota--Monorail studied for twin cities'  
transit, CE:Apr 66:81  
Technological Aspects of Urban Transportation,  
Donald S. Berry and Paul W. Shuldiner, HW1:  
Jan 64:53:3768  
TR:131:205

**MONUMENTS**

- Missouri--St. Louis Steel Arch, Symbol of the  
Spirit of the Pioneers, J.E.N. Jensen, CE:  
Oct 65:64  
TR:131:594

**MOON**

- Engineering Challenges of Lunar Exploration,  
Daniel L. Lycan, CE:Dec 65:40  
TR:131:726  
Washington--Lunar orbiter spacecraft to be  
tested in Seattle, CE:Apr 66:82

**MOVABLE BRIDGES**

- Putting a Movable Bridge Span Back in Swing,  
Remy P. Papp, CE:July 66:36

**MUNICIPAL ENGINEERING**

- Collective Bargaining for Municipal Engineers,  
Herman P. Zanon, CE:Sep 65:50  
TR:131:577  
More engineers and scientists urged for city  
problems, CE:May 66:96  
Municipal Engineering Is a Profession,  
Douglas Talbot, CE:Apr 65:57  
TR:131:263  
Role of the City Engineer in Urban Planning,  
Douglas W. Talbot, UP1:May 66:47:4826

**NATURAL RESOURCES**

- The U.S. Air Force Conserves Natural Re-  
sources, Robert H. Curtin, CE:May 66:43

**NAVIGATION**

- High Lift Locks: Some Hydraulic Problems  
and Solutions, Ernest Pariset and Andre Gagnon,  
WW4:Nov 64:55:4131  
TR:131:131  
Implications of Water Rights for Engineers,  
Robert H. Marquis, IR1:Mar 66:49:4721  
Practical Tonnage Capacity of Canalized Water-  
ways, Erie E. Bottoms, WW1:Feb 66:33:4644  
Principles for a Sound National Water Policy,  
CE:Dec 66:38

**NEW YORK CITY**

- Hydraulic Studies of Jamaica Bay, Armando  
Balloffet and Arnold Kupferman, HY6:Nov 64:  
63:4133  
TR:131:255  
Piling Difficulties in the New York Area, James  
D. Parsons, SM1:Jan 66:43:4617

**NILE RIVER VALLEY**

- Natural Drainage of River Valleys, Hammad  
Y. Hammad, IR2:Jun 65:39:4360  
TR:131:227

**NOMOGRAPHS**

- Charts Simplify Reinforced-Masonry Design,  
J.N. Littlefield, CE:Aug 65:73  
TR:131:485  
Designing Isolated Footings against Overturn-  
ing, Donald G. Newnan, CE:Dec 65:70  
Dsc: Herman Soifer, CE:Apr 66:65  
Corr: CE:Feb 66:74  
TR:131:672  
Graphical Solution of Problems in Open-Chan-  
nel Flow, Albert G. Mercer, CE:Aug 66:75  
Minimum Base Lengths for Cantilever Retain-  
ing Walls, Semih Tezcan, CE:Oct 65:84  
TR:131:683

**NUCLEAR ENERGY**

- Consulting engineers chosen for nuclear power  
plant in Omaha, Nebr., CE:Sept 66:98  
Great Britain-Nuclear station under construc-  
tion in North Wales, CE:Apr 66:79  
Has Nuclear Power Become Competitive?,  
R.N. Bergstrom, CE:Feb 65:32  
TR:131:96  
Mid-West to have new nuclear station, CE:June  
66:97  
New York--Five nuclear defense design sum-  
mer institutes planned, CE:Feb 66:89  
Nuclear Craters for Water Resources Develop-  
ment and Management, David K. Todd, CE:Jun  
65:64  
TR:131:329  
Reactor Containment and Environmental Con-  
siderations, Raymond O. Brittan, UP1:Sep 64:  
21:4037  
TR:131:315  
TVA awards contract for first nuclear plant,  
CE:Aug 66:94

**NUCLEAR EXPLOSIONS**

Nuclear Excavation of a Sea-Level Isthmian Canal, Luke J. Vortman, WW4:Nov 64:27:4129  
TR:131:209

Particle-in-Cell Method in Shock Propagation Problems, Melvin L. Baron, Charles E. Christian, and Oleg Skidan, EM6:Dec 66:205:5049

**NUCLEAR POWER GENERATION**

Reactor Containment Structures Abroad, Alexis L. Gluckmann, PO2:Apr 66:59:4748

**OCEANOGRAPHY**

Marine Resources Council Executive Secretary chosen, CE:Oct 66:92

Ocean Wave Force Instrumentation, Thomas L. Russell, Volkmar Schoettle, and Robert G. Chown, WW4:Nov 66:1:4978

**OCEANS**

Turbulent Mixing Phenomena of Ocean Outfalls, Richard J. Frankel and James D. Cumming, SA2:Apr 65:33:4297

TR:131:728

Yearly Sea Level Variations for the United States, Steacy D. Hicks and William Shofnos, HY5:Sep 65:23:4468

TR:131:456

**OFFICE BUILDINGS**

American Institute of Architects honors CBS headquarters building, CE:July 66:86

Architects chosen for Dept. of Defense office buildings, CE:Apr 66:82

Canada--Toronto Office-Building Complex Breaks Records, John L. Kellermann, CE:May 66:62

TR:131:368

Combination Water Systems for High-Rise Buildings, G. D. Testin, CE:Apr 65:65

TR:131:232

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Eligator, CE:Sept 66:62

Missouri--Arc Welding Speeds Construction of Springfield Office Building, Rudolph F. Fischl and Georg Klatte, CE:Feb 65:60

TR:131:133

New York--Allied Chemical Tower dedicated, CE:Feb 66:89

New York--office building bridges railroad tracks, CE:Oct 66:90

New York--U.S. Customs Court and Federal Office building under construction, CE:Aug 66:96

Skyscraper annex proposed for U.N., CE:Nov 66:99

**OFFSHORE CONSTRUCTION**

Analysis of Four-Legged Tower for Dynamic Loads, David P. Billington, William S. Gaither, and Alan M. Ebner, EM2:Apr 66:61:4769

ASCE Preliminary Research on Pipeline Flotation: Report of the Pipeline Flotation Research Council, ASCE, Robert A. Rait, Chmn., PL1:Mar 66:27:4737

Ocean Wave Force Instrumentation, Thomas L. Russell, Volkmar Schoettle, and Robert G. Chown, WW4:Nov 66:1:4978

Offshore Tanker Terminal in Greece, D.L.

Poppy, CE:Mar 66:59

Steel Offshore Towers as Navigation Aids, J.V.

Ruffin, CE:Nov 65:72

Dsc: C.J. Posey, CE:Feb 66:74

Author's reply: CE:Feb 66:74

TR:131:645

Two-tank system for offshore storage of crude oil, CE:Jan 66:94

Virginia--Construction of Chesapeake Light Station, John W. Fowler, CE:Nov 65:76

TR:131:650

**OPEN-CHANNEL FLOW**

Theoretical Aspects of Seepage from Open Channels, Herman Bouwer, HY3:May 65:37:4321

TR:131:377

**OPTIMIZATION**

Optimum Design--Minimum Weight Versus Fully Stressed, Thomas P. Kicher, ST6:Dec 66:265:5014

Optimum Frameworks under Single Load System, Dhanjoo N. Ghista, ST5:Oct 66:261:4953

**ORGANIZATIONS**

American Meteorological Society and Irrigation and Drainage Division co-sponsor Weather Modification Meeting, Denver, Colo., Jan 24-27, CE:Jan 66:80; report, Apr 66:72

American Road Builders Association annual convention, Denver, Feb 20-23, CE:Apr 66:78

American Society of Agricultural Engineers and ASCE co-sponsor conference on drainage, CE:Feb 66:78

American Society for Engineering Education Conference, Washington State Univ., CE:Aug 66:79

American Water Works Association Annual Conference, Bal Harbour, Fla., CE:July 66:84

ASCE participates in Pacific Northwest Council Annual Convention, Anchorage, Alaska, June 23-26, CE:Apr 66:87

ASCE participates in National Transportation Symposium in conjunction with the Ninth Joint Railroad Conference, CE:Aug 66:40

Associated General Contractors of America, 47th Annual Convention, Washington, D.C., Mar 14-17, CE:May 66:90

Congress of the International Association for Shell Structures met in Leningrad, Russia, Sept. 1966, CE:Nov 66:99

Consulting Engineers Council elects 1966-1967 officers, CE:Mar 66:107

Consulting Engineers Council holds tenth anniversary convention, CE:July 66:86

Consulting Engineers Council predicts record year for construction, CE:Mar 66:105

Engineering Foundation Research 1966 Summer Conferences, CE:May 66:48

England--New concrete society formed, CE:Oct 66:91

Fifth EUSEC Education Conference held in Copenhagen, Sept 12-15, CE:Nov 66:79

Highway Research Board's annual meeting, Jan 17-21, Wash. D.C., CE:Feb 66:88

**ORGANIZATIONS Continued**

- International Conference of Engineering Societies, a world engineering federation adopted at UPADI meeting, CE:Dec 66:41  
 Mole awards for 1967 go to two contractors, CE:Dec 66:84  
 National conference on solid wastes management, Univ. of Calif., April 4-5, CE:Mar 66:105  
 National Society of Professional Engineers holds annual meeting in Minneapolis, CE:Oct 66:93  
 New names for sanitary engineering groups, CE:Aug 66:79  
 Pacific Northwest Council Annual Convention, Anchorage, Alaska, June 23-26, CE:Apr 66:67  
 Portland Cement Association announces personnel changes, CE:Feb 66:90  
 Portland Cement Association 50th Anniversary Symposium, CE:Mar 66:32  
 Dsc, H.N. Huntzicker and George E. Warren, CE:May 66:76  
 Prestressed Concrete Institute, Annual Conference, Miami Beach, Dec 1965, CE:Jan 66:92  
 Producers' Council annual meeting on public needs in building products, CE:Nov 66:100  
 Public works engineers hold annual congress in Chicago, CE:Oct 66:88  
 Reinforced Concrete Research Council meets in Chicago, CE:Jan 66:76  
 Skyscraper annex proposed for United Nations, CE:Nov 66:99  
 Third Southeastern conference on Theoretical and Applied Mechanics, Univ. of South Carolina, Mar. 31 and Apr. 1, CE:Mar 66:107  
 United Nations Bibliography on water available, CE:Feb 66:92  
 World Power Conference elects new officers, CE:Apr 66:72  
 World Power Conference, Tokyo, Oct 16-20, CE:June 66:55

**OROVILLE DAM**

- Control of Earth and Rockfill for Oroville Dam, Bernard B. Gordon and Robert K. Miller, SM3: May 66:1:4822

**ORTHOTROPIC BRIDGES**

- California--Orthotropic span to join San Diego and Coronado, CE:July 66:88  
 California--San Mateo-Hayward Bridge to be longest orthotropic span, CE:May 66:91  
 Canada--Bridge over St. Lawrence to St. Helen's Island to be part of Expo 67, CE:Aug 66:95  
 St. Louis' Poplar Street Bridge--Design and Fabrication, E.J. Shields, CE:Feb 66:52  
 Stress Analysis of Cantilevered Bridge Slabs, Alexander Coull, ST2:Apr 66:1:4765

**OXIDATION**

- Effects of CO<sub>2</sub> and N<sub>2</sub> on Anaerobic Digestion, Kenneth E. Hartz and R. Rupert Kountz, SA2: Apr 66:83:4771  
 Oxidation of Coal Mine Pyrite, C. Scott Clark, SA2:Apr 66:127:4802

- Role of Protozoa in the Diphase Excretion of BOD, Manmohan N. Bhatia and Anthony F. Gaudy, Jr., SA3:Jun 65:63:4371  
 TR:131:507

**PARKING**

- Environmental Standards of Bayport, Harry E. Bovay, Jr., UP1:May 66:35:4813

**PARKING FACILITIES**

- Economics of Parking Structures at Airports, Paul H. Stafford, AT1:Jan 66:131:4627  
 Small Parking Garages for Huge Los Angeles International Airport, Grant S. Anderson, CE: Aug 66:43  
 Tie-Backs in Soil Open Building Area for Unobstructed Deep Excavation, Weldon S. Booth, CE:Sept 66:46

**PAVEMENTS**

- Airports and the Supersonic Transport, John F. McDonald, AT1:Jan 66:107:4614  
 Asphalt and Scenery on New York State's Northway, CE:Aug 66:46  
 Barge Decks Resurfaced with Asphalt, William P. Helbock, CE:Nov 65:54  
 TR:131:627  
 Behavior of a Soil Mass Under Dynamic Loading, R.W. Sparrow and A.C. Tory, SM3:May 66:59:4825  
 Concrete Pavement Performance at Ten Civil Airports, Martin L. Cawley, AT2:Nov 66:83: 4981  
 Electric Controls for Laying Smooth Pavements, R.L. Peurifoy, CE:Sep 65:56  
 TR:131:757  
 Expansive Cements for Crack-Resistant Concretes, James F. Simms, CE:June 66:46  
 Dsc, Herbert M. Stoll, CE:Nov 66:78  
 author's reply, Nov 66:78  
 Mathematical Method for Blending Aggregates, Donald L. Neumann, CO2:Sep 64:1:4026  
 TR:131:64  
 Quality Control of Asphalt Pavement, Charles R. Foster, CO3:Sept 66:41:4902  
 Roadway of George Washington Bridge and Lincoln Tunnel North Tube to be rehabilitated, CE:Mar 66:105  
 Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Brandley with W. H. Jervis, CE:Aug 66:58  
 Stress Repetition in Pavement Design, Richard G. Ahlvin and Donald N. Brown, AT2:Oct 65:29: 4489  
 TR:131:782  
 Texas--Houston Airport, Study in Engineer-Contractor Harmony, H.O. Fischer, CE:Sep 65: 32  
 TR:131:553

**PENSTOCKS**

- Penstock Codes--U.S. and Foreign Practice, Andrew Eberhardt, PO2:Apr 66:137:4752

**PERMEABILITY**

- Deep Well Waste Injection--Reaction with Aquifer Water, Don L. Warner, SA4:Aug 66:45: 4881

**PERMEABILITY Continued**

One-Dimensional Infiltration into Homogeneous Soil, Yu-Si Fok and Vaughn E. Hansen, IR3: Sept 66:35:4912

Permeability of Compacted Clay, James K. Mitchell, Don R. Hooper, and Richard G. Campenella, SM4:Jul 65:41:4392

TR:131:647

Properties of Porous Media Affecting Fluid Flow, R.H. Brooks and A.T. Corey, IR2:Jun 66:61:4855

Sample Size Estimates in Permeability Studies, Lyman S. Willardson and Rex L. Hurst, IR1: Mar 65:1:4240

TR:131:777

Solution of Anisotropic Seepage by Finite Elements, Olgierd C. Zienkiewicz, Paul Mayer, and Yau Kai Cheung, EM1:Feb 66:111:4676

Turbulent Flow in Porous Media, J.C. Ward, HY5:Sep 64:1:4019

TR:131:664

**PERSONNEL**

Personnel for Inspection, Robert C. Briggs, CE:June 66:56

Portland Cement Association announces personnel changes, CE:Feb 66:90

**PHOTOELASTICITY**

Large Strain Analysis and Stresses in Linear Materials, August J. Durelli and Alfred P. Mulzet, EM3:Jun 65:65:4367

TR:131:139

Photosensitive Plastics Extend the Range of Photoelastic Stress Studies, John P. Cook, CE:Nov 65:87

TR:131:711

Tamut 2 Underground Power Plant, Ivor L. Pinkerton and Eric J. Gibson, FO1:Mar 64:33: 3835

TR:131:23

**PHOTOGRAMMETRY**

The Case of the Missing Curriculum, Kenneth S. Curtis, SU2:Jul 64:27:3963

TR:131:700

Comparison of Space Resection Adjustments, Richard H. Rapp, SU1:Jan 66:17:4605

Double Summation of Errors in Aerial Triangulation, Gordon Gracie, SU2:Sep 65:13:4487

TR:131:527

Highway Plans from Photogrammetrically-Compiled Maps, Lewis E. Parker, SU1:Apr 64: 31:3859

TR:131:364

Remote Sensing for Estimating Soil Salinity, Victor I. Myers, David L. Carter, and William J. Rippert, IR4:Dec 66:59:5040

Reservoir Topography by Shoreline Plotting, David L. Crandall, SU1:Apr 64:39:3874

TR:131:579

Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, SU1:Jan 66: 1:4599

**PHREATOPHYTES**

Determination of Water Use by Phreatophytes and Hydrophytes, G.H. Hughes and Charles C. McDonald, HY2:Mar 66:63:4714

**PIERS**

Critical Analysis of Open-Channel Resistance, Hunter Rouse, HY4:Jul 65:1:4387

TR:131:851

Pile and Pier Foundations, Ralph B. Peck, SM2:Mar 65:33:4273

TR:131:224

Verrazano-Narrows Bridge: Construction of Tower Foundations and Anchorages, Nomer Gray and George H. Decanq, CO2:Mar 66:95:4744

Verrazano-Narrows Bridge: Design of Tower Foundations and Anchorages, Leo H. Just, Ira G. Levy, and Vladimir Obrcin, CO2:Mar 66:71: 4743

**PILES AND PILE DRIVING**

Augered-in Concrete Piles Support Boeing Aerospace Activities, Norman L. Liver, CE: Oct 66:60

Big Piles for a Deep Lake Crossing, Robert Younger, CE:Nov 66:58

Buckling of Long Unsupported Timber Piles, Earle J. Klohn and G.T. Hughes, SM6:Nov 64: 107:4141

TR:131:235

Design of Laterally Loaded Piles, Bengt B. Broms, SM3:May 65:79:4342

TR:131:389

Flexibility in Cylinder Groups Oscillated in Water, Alan D.K. Laird, WW3:Aug 66:69:4484

La Guardia Runways Extended over Water, Arne Lier with Eugene Fasullo, CE:Aug 66:32

Lateral Resistance of Piles in Cohesionless Soils, Bengt B. Broms, SM3:May 64:123:3909

TR:131:475

Lateral Resistance of Piles in Cohesive Soils, Bengt B. Broms, SM2:Mar 64:27:3825

TR:131:478

Lateral Response of Piles, William R. Spillers and Robert D. Stoll, SM6:Nov 64:1:4121

TR:131:231

Load Transfer for Axially Loaded Piles in Clay, Harry M. Coyle and Lymon C. Reese, SM2:Mar 66:1:4702

Loads on Vertical Pile Groups, Heinz G. Juhl, ST2:Apr 66:103:4774

Offshore Tanker Terminal in Greece, D.L. Poppy, CE:Mar 66:59

Pile and Pier Foundations, Ralph B. Peck, SM2:Mar 65:33:4273

TR:131:224

Pile Load Capacity: Estimates and Test Results, William S. Housel, SM4:Jul 66:1:4861

Piles in Cohesionless Soil Subject to Oblique Pull, Yoshiaki Yoshimi, SM6:Nov 64:11:4124

TR:131:229

Piling Difficulties in the New York Area, James D. Parsons, SM1:Jan 66:43:4617

The Structural Action of Pile Cluster Dolphins, David G. Elms and Werner E. Schmid, WW4: Nov 65:11:4529

TR:131:816

**PILES AND PILE DRIVING Continued**

Subsoils and Foundation Design in Richmond, Va., Leo Casagrande, SM5:Sept 66:109:4915

**PIPE FLOW**

Unsteady Flow of Solid-Liquid Suspension, Don J. Wood and T.Y. Kao, EM6:Dec 66:117:5039

**PIPELINES**

Alabama--Paddle Wheels for Traction in a Swamp, CE:Dec 65:71

TR:131:691

ASCE Preliminary Research on Pipeline Flotation: Report of the Pipeline Flotation Research Council, ASCE, Robert A. Rait, Chmn., PL1:Mar 66:27:4737

California--Planning and Anchoring 12 Miles of Big Pipe for Santa Clara County, M.K. Harris, CE:Jun 65:61

TR:131:345

California--Steel Pipe for South Bay Aqueduct, Alfred R. Golze, CE:Mar 65:36

TR:131:166

Flow Measurement Techniques for Hydraulic Dredges, Ernest P. Fortino, WW1:Feb 66:109:4683

Georgia--River Bypass Boosts Efficiency of Power Plant on Chattahoochee River, CE:Nov 65:88

TR:131:714

Graphical Solution for Branching Pipe Flows, Claud C. Lomax, PL1:Mar 66:13:4718

Hydraulic Testing of the 24-In. Leidy Line, Denver S. Patton, Jr., PL2:Nov 64:15:4132

TR:131:656

Improved Design of Fluid Networks with Computers, Thomas A. Marlow, R. Logan Hardison, Henry Jacobson, and Gilbert E. Biggs, HY4:Jul 66:43:4866

Internal Sand Cleaning of Pipelines, Robert A. Jenkins, PL1:Mar 66:1:4717

New Jersey--A Revolution in Sewer Maintenance at Woodbridge, Charles W. Beagle, CE:Mar 65:34

TR:131:141

Pipeline Corrosion Stopped by Zinc Anodes, T.M. Heitman, CE:Oct 66:50

Understanding and Controlling Corrosion, Harry Neugold, Jr., CE:Mar 65:57

Dec: R.E. Bald, CE:May 65:74

TR:131:239

Understanding the Corrosion Resistance of Concrete Pipe, John A. Shaw, CE:Jun 65:39

TR:131:396

Water Supply for Saigon, Walter T. McPhee, CE:Sep 65:59

TR:131:426

**PIPES**

Asbestos-Cement Pipe for a Tower, Yen H. Dong, CE:Oct 66:46

Big Pipes for a Deep Lake Crossing, Robert Younger, CE:Nov 66:58

Colorado--70-ft Underpass of Corrugated Steel Pipe for Broadmoor Hotel, Colorado Springs, Nick Pinello, CE:Nov 65:84

TR:131:638

Evaluation of Pipe Elbows as Flow Meters, John A. Replige, Lloyd E. Myers, and Kenneth J. Brust, IR3:Sept 66:17:4888

An Explicit Friction-Factor Relationship, Don J. Wood, CE:Dec 66:60

Loop Systems for Measuring Sand-Water Mixtures, Hans A. Einstein and Walter H. Graf, HY1:Jan 66:1:4608

Manifolds, Rotating and Stationary, Chester J. Drdon, SA1:Feb 66:269:4696

Pressure Pulsations in Flow Through Branched Pipes, David L. Appel and Yun-Sheng Yu, HY6:Nov 66:179:4988

**PLANNING**

Breaking Par in Public Engineering Practice, Herbert A. Goetsch, PP2:Dec 66:19:5042

California--Feasibility study of second deck for Golden Gate Bridge, CE:Feb 66:90

Civil Engineering in Perspective, George M. Sicular, CE:May 66:73

Dec, Melvin E. Amstutz, CE:June 66:79, on planners who have no knowledge of planning

Efficient Earth Moving--Job Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44

Engineering Principles of Urban Transportation Planning, Kurt W. Bauer, HW2:Dec 65:1:4559

TR:131:821

Functional Planning of Bulk Material Ports, Leonard S. Oberman, WW2:May 65:17:4310

TR:131:88

Guide to Development and Use of Electronic Computer Programs: Program Planning, Steven J. Fenves, ST6:Dec 64:19:4153

TR:131:15

Hydro Project Formulation: Results in the Southeast, Henry C.C. Weinkauff and Clement P. Lindner, PO1:Jan 66:15:4606

Installation Procedure for Hot Metal Facility, L. Earl Tabler, Jr., CO1:May 65:179:4341

TR:131:7

A New Look at Engineering Reports, Robert W. Richards, CE:Oct 66:52

Optimum Size Seaport, Carl H. Plumlee, WW3:Aug 66:1:4880

Progress in Waste Water Re-Use in Southern California, John D. Parkhurst, IR1:Mar 65:79:4253

TR:131:569

The Review Function in Water Resources Development, Edmund H. Lang, PO1:Jan 66:39:4622

Short-haul transportation to be studied for NASA by Boeing Co., CE:Oct 66:89

Social and Economic Factors in Highway Location, E. Wilson Campbell, HW2:Oct 66:35:4926

Terminal Planning For Future Highways: Progress Report of the Committee on Terminals, Highway Division, ASCE, George W. Blomme, Chairman, HW2: Oct 66:61:4944

Verrazano-Narrows Bridge: Conception of Design and Construction Procedure, Othmar H. Ammann, CO2:Mar 66:5:4741

Waste Water Disposal: San Joaquin Valley, California, Elmo W. Huffman, IR2:Jun 66:47:4847

**PLANNING Continued**

Water Resources Site Preservation on Federal Lands, Kenneth W. Sax, HY6:Nov 66:81:4976

**PLASTIC DESIGN**

Flange Local Buckling in Wide-Flange Shapes, Maxwell G. Lay, ST6:Dec 65:95:4554  
TR:131:806

**PLASTICITY**

Analysis of Contained Plastic Flow in Plane Solids, Alfredo H.S. Ang and Goin N. Harper, EM5:Oct 64:397:4113  
TR:131:304

Behavior of Elastic Plastic Trusses with Unstable Bars, Giulio Maier, EM3:Jun 66:67:4858  
Clay Mineralogical Aspects of the Atterberg Limits, H. Bolton Seed, Richard J. Woodward, and Raymond Lundgren, SM4:Jul 64:107:3983  
TR:131:285

Experimental Rotation of Steel Beam-Columns, Giuliano Augusti, ST6:Dec 64:171:4175  
TR:131:291

Flange Local Buckling in Wide-Flange Shapes, Maxwell G. Lay, ST6:Dec 65:95:4554  
TR:131:806

Fundamental Aspects of the Atterberg Limits, H. Bolton Seed, Richard J. Woodward, and Raymond Lundgren, SM6:Nov 64:75:4140  
TR:131:531

Importance of Strain Hardening in Plastic Design, Alexander P. Hrennko, ST4:Aug 65:23:4424  
TR:131:856

Inelastic Lateral Stability Under a Moment Gradient, Campbell Massey and F.S. Pitman, EM2:Apr 66:101:4779

Large Plastic Deformation of Pressurized Cylinders, Martin A. Salmon, EM3:Jun 66:33:4854

Limit Analysis of Notched Tension Specimens, Walid H. Rimawi, Seng-Lip Lee, and T. Mura, EM1:Feb 66:11:4636

Mode Approximations for Impulsively-Loaded Rigid-Plastic Structures, J.B. Martin and Paul S. Symonds, EM5:Oct 66:43:4938

Plastic Analysis and Design of Non-Prismatic Members, Bruce G. Rogers and William H. Munse, Jr., ST5:Oct 65:299:4519  
TR:131:366

Plastic Behavior of Tubular Beam Columns, Timothy J. Dwyer and Theodore V. Galambos, ST4:Aug 65:153:4446  
TR:131:537

Shakedown Analysis of Some Typical One-Story Bents, Egor P. Popov and Eric Becker, ST5:Oct 64:1:4069

Spherical Elastic Plastic Shock Propagation, Morton B. Friedman, Hans H. Bleich, and Raymond Parnes, EM3:Jun 65:189:4377  
TR:131:76

Yielding of Uniformly Loaded Steel Members, Maxwell G. Lay, ST6:Dec 65:49:4580  
TR:131:800

**PLASTICS**

Alaska--Plastic Insulation vs. Deep Trenching for Seldovia Water Mains, Frank Nyman, CE:Mar 65:40

TR:131:207  
Fiberglass-Reinforced Plastics as Materials for Construction, Richard E. Chambers, CE:June 66:62

Plastic Cable Covering Introduced on California Suspension Bridge, Jackson L. Durkee and George B. Shaw, Jr., CE:Feb 66:63  
Study of Stability in the Hyperbolic Paraboloid, Kenneth M. Leet, EM1:Feb 66:121:4677  
Utah--Lift Slabs (in Salt Lake City) Cast under Plastic Cover for Raising in Spring, Robert Sawyer, CE:Jul 65:42  
TR:131:454

**PLATES (Structural Members)**

Analysis of Multicell Box Gates for Dry Docks, Mohamed Ali El-gaaly, ST3:Jun 65:171:4380

TR:131:435  
Analysis of Truss-Plate Structures, James W. Gillespie, ST2:Apr 65:129:4300

TR:131:551  
Bending of Circular Sandwich Plates, Jao-Schun Kao, EM4:Aug 65:165:4449  
TR:131:438

Bounding Plane Stress Solutions by Finite Elements, R.F. Hooley and P.D. Hibbert, ST1:Feb 66:39:4663

Buckling of Aluminum Columns, Plates, and Beams, John W. Clark and Richard L. Rolf, ST3:Jun 66:17:4838

Compact Solution of Doubly-Curved Shell Equation, Graham H. Powell, EM5:Oct 66:1:4927

Design of Base Plates and Anchor Bolts with Simple Assumptions, Herman Solfer, CE:Apr 66:63

Elastic Plates Subjected to Moving Heat Sources, Ardeshir Jahanshahi, EM4:Aug 65:27:4426

TR:131:450  
Elastic Stress Field in a Plate with a Skew Hole, F. Ellyin, N.C. Lind, and A.N. Sherbourne, EM1:Feb 66:1:4651

Elastostatic Problem of a Perforated Square Plate, Alois L. Schlack and Robert W. Little, EM5:Oct 64:171:4089

TR:131:51  
Face-Wrinkling Mode of Buckling of Sandwich Panels, Billy J. Harris and W.C. Crisman, EM3:Jun 65:93:4370

TR:131:575  
Grid-Framework Method for Plates in Flexure, Alan L. Yetttram and Husain M. Husain, EM3:Jun 65:53:4361

TR:131:778  
Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841

Large Deflection of Heated Plates, Marion W. Wilcox and Lewis E. Clemmer, EM6:Dec 64:165:4176

TR:131:181  
Local Instability in Plates and Channel Struts, A.C. Walker, ST3:Jun 66:39:4839



**PLATES (Structural Members) Continued**

Nonlinear Solution for Folded Plate Structures, Larry E. Farmer and John E. Breen, ST2:Apr 66:229:4786

Optimum Synthesis of Prestressed Structures, George I.N. Rozvany, ST6:Dec 64:189:4178  
TR:131:157

Plane-Frame Methods for Plates in Extension, Alan L. Yettram and M. Husain, EM1:Feb 66:157:4695

Reinforcing for a Rectangular Opening in a Plate, Robert R. Snell and Marion B. Scott, ST4:Aug 65:169:4451  
TR:131:463

Some Improvements on Proposed Eigen-Matrix Method, Bennisuke Tanimoto, ST1:Feb 66:101:4667

Stability of Plates Using the Finite Element Method, Kanwar K. Kapur and Billy J. Hartz, EM2:Apr 66:177:4790

Statistical Design of Axisymmetric Plates, George J. Megarefs, EM6:Dec 66:79:5030  
Stresses in a Uniformly Loaded Two-Layer Circular Plate, Martin A. Goldberg, Malcolm Newman, and Marvin J. Forray, EM3:Jun 65:13:4356

TR:131:652  
Vibrations and Stability of Buckled Panels, Yao W. Chang and Ernest F. Masur, EM5:Oct 65:1:4497  
TR:131:755

Waves in a Smoothly Joined Plate and Half-Space, Jan D. Achenbach, Satya P. Keshava, and George Herrmann, EM2:Apr 66:113:4781

**PLYWOOD**

Hurricane-Resistant Plywood Construction, J. M. Carney, CE:June 66:37

**POLAND**

Inland Water Transportation in Poland, Fryderyk Tomala, WW1:Feb 65:1:4231  
TR:131:875

**POLLUTION**

Design Criteria for Interceptor Sewers for St. Louis, Erwin E. Bloss, SA4:Aug 66:7:4877

Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, G. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975

Oxidation of Coal Mine Pyrite, C. Scott Clark, SA2:Apr 66:127:4802

River and Laboratory BOD Rate Considerations, John J. Gannon, SA1:Feb 66:135:4681

Two-Dimensional Infiltration and Wetting Fronts, Sadik Toksoz, Don Kirkham and E. Robert Baumann, IR3:Sep 65:65:4477

TR:131:514  
What is Pollution? An Engineer's Viewpoint, Paul D. Haney, SA1:Feb 66:109:4659

**POPULATION (Statistical)**

History and Techniques of Modern Urban Planning, Wolfgang G. Roeseler, UP1:May 66:5:4810

**PORE-WATER PRESSURE**

Plane Strain Tests on a Saturated Remolded Clay, David J. Henkel and Neil H. Wade, SM6:Nov 66:67:4970

Strength Variation Along Failure Surfaces in Clay, J.M. Duncan and H. Bolton Seed, SM6:Nov 66:81:4971

**POWER**

American Electric Power System to expand in Appalachia area, CE:Jan 66:95

American Power Conference, 28th annual meeting, Chicago, April 26-28, CE:July 66:41

Boiler Column Straightening Under Load Conditions, James F. O'Sullivan and Dallas I. Downs, PO2:Apr 66:115:4751

California--California Water Project, Power Plans and Demands, Alfred R. Golze, CE:Feb 65:35  
TR:131:100

Cost and Economics of Maintenance of Turbine Runner Cavitation, Harold G. Hunt, PO1:Jan 66:107:4634

Design and Construction Features: Boundary Project, H.V. Strandberg, PO2:Apr 66:157:4753  
Design of Karadj Arch Dam, Jan A. Veltrop and Roman P. Wengler, PO1:Mar 64:1:3827

TR:131:213  
Development of Arch Action in Arch Dams, K.V. Swaminathan, PO1:May 65:39:4329

TR:131:135  
East Pakistan--Master Plan for Water and Power Development, Ernest M. Bowles, CE:Aug 65:56  
TR:131:483

Economic Analysis of Pumped Storage Projects, Roger D. Ley, PO2:Apr 66:77:4749

Hydro Project Formulation: Results in the Southeast, Henry C.C. Weinkauff and Clement P. Lindner, PO1:Jan 66:15:4606

Hydropower Developments in India, Asit K. Biswas, PO2:Apr 66:31:4777

Hydropower Project Putput Optimization, Warren A. Hall and Theodore G. Roefs, PO1:Jan 66:67:4628

Latest Developments in Transporting Coal By Rail, Richard N. Bergstrom and Kenneth W. Hamming, PO1:May 65:81:4338

TR:131:681  
The Lewis Smith Rockfill Dam, James A. Tyson, PO1:Jan 66:81:4633

The Pacific Northwest-Pacific Southwest Intertie, E. V. Lindseth, CE:Dec 66:46

Penstock Codes--U.S. and Foreign Practice, Andrew Eberhardt, PO2:Apr 66:137:4752

Reactor Containment Structures Abroad, Alexis L. Gluckmann, PO2:Apr 66:59:4748

The Review Function in Water Resources Development, Edmund H. Lang, PO1:Jan 66:39:4622

Short Span Sag Calculations with Insulator Bells, Thomas E. Leland, PO1:May 65:11:4317  
TR:131:127

Sidestream Intakes for Hydro Power in Scotland, Edgar Burke Wilson and John Alexander Stevenson, PO1:Jan 66:1:4601



**POWER Continued**

Some Challenges in Power, Wallace L. Chadwick, CE:Oct 65:82  
TR:131:657

Specification Tolerances for Turbine Homology, Edward J. Groscurth, PO1:Jan 66:55:4625

Surface Discharge of Horizontal Warm-Water Jet, Yuan Jen, Robert L. Wiegel, and Ismail Mobarek, PO2:Apr 66:1:4801

Tests Verify Design for TVA's 500-kv Towers, Gene M. Wilhoite, PO3:Oct 64:81:4082

TR:131:90

Transmission Tower Foundations, Dallas I. Downs and Robert Chieurrzi, PO2:Apr 66:91:4750

Tumut 2 Underground Power Plant, Ivor L. Pinkerton and Eric J. Gibson, PO1:Mar 64:33:3835

TR:131:23

Tunnels for Hydroelectric Power in Tasmania, Henry H. Thomas and Lindsay S. Whitman, PO3:Oct 64:11:4065

TR:131:84

Unlined Tunnels of the Snowy Mountain Hydroelectric Authority, Australia, H.E. Dann, W.P. Hartwig, and J.R. Hunter, PO3:Oct 64:47:4071

TR:131:17

Value of Pumped Storage in a Thermal System, Wilbur R. Barrows, PO1:Jan 66:29:4619

Virginia--Towers for a 500-kv Transmission Line, S.D. Alpert and J.D. Shaw, CE:Feb 65:52

TR:131:123

World Power Conference elects new officers, CE:Apr 66:72

World Power Conference, Tokyo, Oct 16-20, CE:June 66:55

**POWER PLANTS**

Alaska--Rampart Canyon Dam studied by Army Corps of Engineers, CE:Apr 66:79

Dsc, W. Irvine Low, July 66:69

Consulting engineers chosen for nuclear power plant in Omaha, Nebr., CE:Sept 66:98

Cost and Economics of Maintenance of Turbine Runner Cavitation, Harold G. Hunt, PO1:Jan 66:107:4634

Design and Construction Features: Boundary Project, H.V. Strandberg, PO2:Apr 66:157:4753

Electric complex to be developed in Southwest, CE:June 66:99

General Electric stops turnkey contracting for commercial nuclear power plants, CE:Aug 66:97

Ghana--Akosombo Dam dedicated, CE:Apr 66:79

Great Britain-Nuclear station under construction in North Wales, CE:Apr 66:79

Has Nuclear Power Become Competitive?, R.N. Bergstrom, CE:Feb 65:32

TR:131:96

Hydropower Developments in India, Asit K. Biswas, PO2:Apr 66:31:4777

Montana--First power produced at Yellowtail Dam, CE:Sept 66:100

Pennsylvania--Giant girder for generating station, CE:May 66:96

Perspective on Water Desalting, Milton S. Sachs, CE:Nov 66:66

Surface Discharge of Horizontal Warm-Water Jet, Yuan Jen, Robert L. Wiegel, and Ismail Mobarek, PO2:Apr 66:1:4801

Tennessee Valley's Authority's Bull Run steam station has world's largest power unit, CE:Aug 66:97

**PRECAST CONCRETE**

Cable-Supported Warehouse Roof Provides Large Open Area, Fred Fischer, Jr., CE:Sept 66:43

Dsc, Walter H. Wheeler, CE:Dec 66:61

Cascade Orchards Bridge--a Partially Prestressed Continuous Three-Span Bridge, Arvid Grant, CE:Aug 66:62

Cast-in-Place Concrete Connects Precast Members, S. A. Erech, CE:Mar 66:64

La Guardia Runways Extended over Water, Arne Lier with Eugene Fasullo, CE:Aug 66:32

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Eligator, CE:Sept 66:62

Prestressed Concrete Institute honors 15 precast and prestressed concrete projects, CE:Sept 66:100

Quality Control for Precast Concrete Construction, Arthur R. Anderson, CE:Mar 66:56

Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units; Progress Report by the Task Committee on Precast Concrete Design and Construction, Structural Division, ASCE, P.H. Kaar, Chmn., ST5:Oct 66:119:4935

Two Large Shells of Post-Tensioned Precast Concrete--Oklahoma Arena and Arizona Coliseum, T.Y. Lin and Ben W. Young, CE:Jul 65:56

TR:131:488

**PRECIPITATION**

Weather Modifications, University of Wyoming, Merlin C. Williams, HY1:Jan 65:93:4203

TR:131:391

**PRESSURE GAGES**

Lateral Pressure of Concrete on Formwork, R.L. Peurifoy, CE:Dec 65:60

Dsc and addendum: A.G.G. Ritchie, CE:Mar 66:86; Peter D. Courtois, CE:Apr 66:84

TR:131:678

**PRESTRESSED CONCRETE**

Anchor Zone Stresses in Prestressed Concrete Beams, Pijushanti Som and Kalyanmay Ghosh, ST4:Aug 64:49:3996

TR:131:94

Cascade Orchards Bridge--a Partially Prestressed Continuous Three-Span Bridge, Arvid Grant, CE:Aug 66:62

Cast-in-Place Concrete Connects Precast Members, S. A. Erech, CE:Mar 66:64

Expanding a Prestressed Concrete Plant, George Laszlo, CE:Apr 65:42

TR:131:259

**PRESTRESSED CONCRETE Continued**

- International Congress on Prestressed Concrete Presents Challenges to American Engineers, Ben C. Gerwick, Jr., CE:Oct 66:62
- International practice code for prestressed concrete recommended, CE:Oct 66:93
- LaGuardia Runways Extended over Water, Arne Lier with Eugene Fasullo, CE:Aug 66:32
- Minnesota--One mile of highway to be prestressed, CE:Feb 66:92
- A Modern Building Code for New York, N.Y., Thomas C. Kavanagh, with Sidney M. Johnson, CE:Sept 66:73
- Optimum Synthesis of Prestressed Structures, George I.N. Rozvany, ST6:Dec 64:188:4178
- TR:131:157
- Post-tensioned Viaduct Piers, Edward P. Keiner, Jr., CE:Jan 65:72
- TR:131:79

Prestressed Concrete Institute honors 15 precast and prestressed concrete projects, CE:Sept 66:100

- Prestressed Concrete Institute, Annual Conference, Miami Beach, Dec 1965, CE:Jan 66:92
- Quality Control for Precast Concrete Construction, Arthur R. Anderson, CE:Mar 66:56
- Tests of Partially Prestressed Concrete Girders, Donald D. Magura and Elvino Hognestad, ST1:Feb 66:327:4685
- Two Large Shells of Post-Tensioned Precast Concrete--Oklahoma Arena and Arizona Coliseum, T.Y. Lin and Ben W. Young, CE:Jul 65:56
- TR:131:488

**PRESTRESSING**

- The Prestressed Glued Joint for Steel Connections, George Kostro, CE:Apr 65:75
- TR:131:294
- Steel Bridge Girders with Prestressed Composite Tension Flanges, Homer M. Hadley, CE:May 66:70

**PROBABILITY THEORY**

- The Analysis of Structural Safety, Alfred M. Freudenthal, Jewell M. Garretts, and Masanobu Shinozuka, ST1:Feb 66:267:4682
- Probabilistic Design to Resist Earthquakes, Emilio Rosenblueth, EM5:Oct 64:189:4090
- TR:131:112
- Probability of Structural Failure Under Random Loading, Masanobu Shinozuka, EM5:Oct 64:147:4088
- TR:131:165
- Product Control and Incentives, Edward A. Abdun-Nur, CO3:Sept 66:25:4900
- Validity of a Stochastic Model for Predicting Subsidence, Arnold L. Sweet, EM6:Dec 65:111:4573
- TR:131:783

**PRODUCT CONTROL**

- Product Control and Incentives, Edward A. Abdun-Nur, CO3:Sept 66:25:4900

**PROFESSIONAL ACTIVITIES**

- Action or Retreat for Engineers and Surveyors in Regulation of Professional Practice, William A. White, CE:Jan 66:54
- Breaking Par in Public Engineering Practice, Herbert A. Goetsch, PP2:Dec 66:19:5042
- Challenge to Civil Engineering, Harvey Brooks, PP1:Jan 64:21:3750
- TR:131:344
- Choice Not Chance in Technopolis, George Ewing Hunter, PP2:Dec 66:15:5041
- Developing A Social Consciousness (The Younger Viewpoint) Raymond S. Plock, CE:Sept 66:94
- Education for Sanitary Engineers, E. Sherman Chase, PP2:May 64:15:3894
- TR:131:301
- Educational Requirements for Water Resource Engineers, Alfred R. Golz, PP2:May 64:7:3890
- TR:131:606
- Engineers and the Practice of Law, Fred Vendig, CE:Oct 66:56
- Factors Considered in Urban Transportation Planning, Charles G. Beer, HW2:Dec 65:51:4582
- TR:131:874
- Federal Employee-Management Cooperation: E.O. 10988, Leonard T. Crook, PP1:May 66:18:4819
- For the Civil Engineer--A Leadership Challenge, C.R. Ownbey, CE:Nov 66:75
- Guide for the Civil Engineering Visitor on ECPD Accreditation Teams: Report of the Task Committee on Accreditation of the Committee on Guide to Professional Collaboration in Environmental Design, CE:July 66:72
- Engineering Education, ASCE, Ross E. McKinney, Chmn., PP1:May 66:1:4814
- Inter-American Program: Past, Present, and Future, Frederick J. McGarry and Charles L. Miller, PP2:Dec 66:7:5038
- 1965 ASCE Salary Survey: Report of the Committee on Employment Conditions of the Department of Conditions of Practice, ASCE, Franklin Pitcher, Chmn., PP1:May 66:33:4820
- Professional Training of Engineers, PP2:Dec 66:23:5043
- Research or Practice--Which Way to Go? (The Younger Viewpoint) Joel I. Abrams and John B. Scalzi, CE:June 66:34
- A Revolution in the Water Resources Field, William Whipple, Jr., CE:Dec 65:63
- Dsc: Asit K. Biswas, CE:Apr 66:64
- TR:131:750
- Teaching Engineering Attitude to Students, Malcolm S. Gregory, PP1:Jan 65:1:4189
- TR:131:361
- Trend in Water Resources Education, Carl E. Kindsvater, PP2:May 64:1:3889
- TR:131:369
- White House Fellowship--A Year at the Top, Richard de Neufville, CE:Oct 66:44
- Words of Two Giants, Paul M. Wright, PP2:Dec 66:1:4997
- Your Place in Your Local Section, William H. Wisely, CE:Dec 66:27

**PROFESSIONAL ADVANCEMENT**

- An Awareness of Reality, Bruce G. Johnston, CE:Jan 65:58  
 TR:131:31
- A Civil Engineer--and Proud of It, Wallace L. Chadwick, CE:Jan 65:37
- Civil Engineering in Perspective, George M. Sicular, CE:May 66:73  
 TR:131:21
- Computer Selection: A New Role for the Civil Engineer, M.D. Sinkoff, CE:Jan 66:58
- Continuing Education, William H. Wisely, CE:Feb 65:31  
 TR:131:92
- A Design for the Future, Wallace L. Chadwick, CE:Jun 65:36  
 TR:131:406
- Dsc, Raymond Archibald, CE:July 66:70 on giving engineer-in-training status to all graduates
- Dsc, John V. Wilson, CE:Oct 66:67
- Editorial discussion on Engineers Council for Professional Development, CE:Oct 66:83
- Engineering Registration--Why and What Not, Wallace L. Chadwick, CE:Sept 66:39
- EJC offers packaged courses, CE:Dec 66:41
- Dsc, Walter H. Wheeler, CE:Nov 66:77
- Lester A. Hoel, CE:Nov 66:77
- Environmental Engineering Intersociety Board exam to be held June 19, 1967, CE:Dec 66:72
- Is the Engineering Profession Saying What It Means? (The Younger Viewpoint) Frank Schneller, CE:Jan 66:91
- Professional Schools Granting Professional Degrees Needed, CE:July 66:61
- Dsc, Jared L. Black, CE:Nov 66:77
- Recognition as a Profession (The Younger Viewpoint) Joseph Gerlt, CE:Feb 66:86
- You and Your Local Section, W.L. Chadwick, CE:Apr 65:37  
 TR:131:222

**PROFILES**

- Electric Controls for Laying Smooth Pavements, R.L. Peurifoy, CE:Sep 65:56  
 TR:131:757

**PROGRAMS (Computers)**

- Computer-Aided Land Surveying, J.H. Millett, J.W. King and H.J. Ridinger, CE:Oct 66:58
- HYDRO, a Computer Language for Water Resources Engineering, George Bugliarello, et al, CE:Nov 66:69

**PROTECTIVE COATINGS**

- Epoxy Replaces Steel Armor at Discharge Control Gates, John C. Rowland, CE:July 66:64
- Fire Protection of Structural Steel Framing, Roger H. Wildt, CE:Sept 66:70
- Plastic Cable Covering Introduced on California Suspension Bridge, Jackson L. Durkee and George B. Shaw, Jr., CE:Feb 66:63

- Understanding and Controlling Corrosion, Harry Neugold, Jr., CE:Mar 65:57  
 Dsc: R. E. Bald, CE:May 65:74  
 TR:131:239

**PUBLICATIONS**

- ASCE--ACI joint volume "Symposium on Reinforced Concrete Columns," available, CE:Oct 66:80
- "Bibliography on Filing, Classification and Indexing Systems, and Thesauri for Engineering Offices and Libraries" available from Engineering Societies Library, CE:Sept 66:53
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- Engineering Joint Council publishes symposium on technical information, CE:May 66:80
- Engineers Joint Council issues second edition of manual on selective service, CE:Aug 66:82
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- New ASCE Directory available to members, CE:Oct 66:83
- New Directory of Engineering Societies available, CE:Apr 66:38
- Opinions of the Board of Ethical Review, available from the National Society of Professional Engineers, CE:Jan 66:94
- Proceedings of American Society of Agricultural Engineers Conference on drainage available, CE:Aug 66:42
- Proceedings for 1966 Incinerator Conference sponsored by ASME available, CE:June 66:96
- Proceedings of Lectures on Design and Construction of Earth Structures now available, CE:Dec 66:78
- Reports Production--HNT&B Style, Patrick J. Schuler, CE:Oct 66:54
- "Sewers for Growing America" by Morris M. Cohn now available, CE:Nov 66:98
- "Suggested Building Code Provisions for Fallout Shelters" available, CE:Aug 66:95
- United Nations bibliography on water available, CE:Feb 66:92
- U.S. Bureau of Reclamation summarizes its achievements in 1965, CE:July 66:88
- Lyman Wilbur honored by Engineering News-Record, CE:Mar 66:106
- PUBLIC HEALTH**
- Rice Irrigation, Lee Chow, IR3:Sept 65:35:4472  
 TR:131:724
- Water Recreation and the Public Water Supply, Frank M. Stead, CE:Nov 66:54
- PUBLIC RELATIONS**
- Consulting Practice in Surveying, William B. Wright, CE:Apr 66:61
- Public Relations activity in ASCE, William H. Wisely, CE:Oct 66:35

**PUBLIC WORKS**

- Breaking Par in Public Engineering Practice, Herbert A. Goetsch, PP2:Dec 66:19:5042
- Manager and/or Engineer?, Vinton W. Bacon, CE:May 66:58
- Principles For a Sound National Water Policy, CE:Dec 66:38
- Public works engineers hold annual congress in Chicago, CE:Oct 66:88
- Public Works in Ancient Mesopotamia, Alfred W. Maner, CE:July 66:50
- Public works projects discussed at Metropolitan section meeting, CE:Dec 66:72
- A Training Program for Public Works Inspectors, Alfred R. Pagan, CE:May 66:52
- Unethical Sabotage of Public Projects, William H. Wisely, CE:Oct 65:49
- TR:131:708

**PUMPED STORAGE**

- Value of Pumped Storage in a Thermal System, Wilbur R. Barrows, PO1:Jan 66:29:4619

**PUMPING**

- Analysis of Data from Stepwise Throttled Pump Test, Gert Aron and Verne H. Scott, HY6:Nov 66:95:4977
- Distribution System Equalizing Storage Hydraulics, M.B. McPherson and R. Prasad, HY6:Nov 66:151:4987
- Impoundment Destratification by Mechanical Pumping, William H. Irwin, James M. Symons, and Gordon G. Robeck, SA6:Dec 66:21:5032

**PUMPS**

- Hydraulic Design of Pump Intakes, Ralph T. Hattersley, HY2:Mar 65:223:4276
- TR:131:347
- Hydraulic Performance Comparison of Centrifugal Pumps, Michael J. Suess, HY2:Mar 65:TR:131:404
- Water Hammer Resulting From Cavitating Pumps, M.R. Carstens and T.W. Hagler, Jr., HY6:Nov 64:161:4143
- TR:131:277

**PURIFICATION**

- Role of Protozoa in the Diphasic Exertion of BOD, Manmohan N. Bhatia and Anthony F. Gaudy, Jr., SA3:Jun 65:63:4371
- TR:131:507
- What is Pollution? An Engineer's Viewpoint, Paul D. Haney, SA1:Feb 66:109:4659

**PYRITE**

- Oxidation of Coal Mine Pyrite, C. Scott Clark, SA2:Apr 66:127:4802

**QUALITY CONTROL**

- Control of Earth and Rockfill for Oroville Dam, Bernard B. Gordon and Robert K. Miller, SM3:May 66:1:4822
- Dsc, Luther S. Reynolds, on importance of attitude in quality control, CE:Jan 66:72

- Efficient Earth Moving--Job Layout and Supervision, Raymond C. Gessel, CE:Apr 66:44
- Engineer in Charge of Construction, Louis W. Petulla, CE:Oct 66:48

- Florida--Liaison Insures Quality Control for Vehicle Assembly Building at Cape Kennedy, Charles I. Orr, CE:Oct 65:56

TR:131:773

- Materials Control and Test Procedures, Robert F. Baker, CO3:Sept 66:17:4896

- Personnel for Inspection, Robert C. Briggs, CE:June 66:56

- Product Control and Incentives, Edward A. Abdun-Nur, CO3:Sept 66:25:4900

- Quality Control for Precast Concrete Construction, Arthur R. Anderson, CE:Mar 66:56

- Quality Control of Asphalt Pavement, Charles R. Foster, CO3:Sept 66:41:4902

- Quality Control of Compacted Earthwork, W.J. Turnbull, J.R. Compton, and R.G. Ahlvin, SM1:Jan 66:93:4623

- A Training Program for Public Works Inspectors, Alfred R. Pagan, CE:May 66:52

**RADAR**

- Arecibo Radar-Radio Telescope--Design and Construction, Thomas C. Kavanagh and David H.H. Tung, CO1:May 65:69:4323

TR:131:625

- Large Radar Shield Fabricated at Ground Level, Paul Stetson, CE:June 66:42

- Editor's corr., CE:Aug 66:75

**RADIOACTIVITY**

- Radioactive Equilibrium Time, William A. Goldsmith and Eddie Joe Middlebrooks, SA6:Dec 66:85:5045

- Reactor Containment and Environmental Considerations, Raymond O. Brittan, UP1:Sep 64:21:4037

TR:131:315

**RAILROADS**

- Brown's Timber Railroad Bridges, Karl Cullman, Max Steinhaus, translator, CE:Nov 66:72

- High-Speed trains in northeast corridor, CE:Dec 66:80

- Latest Developments in Transporting Coal by Rail, Richard N. Bergstrom and Kenneth W. Hamming, PO1:May 65:81:4338

TR:131:681

- New York--Long Island Railroad tests first turbine rail car, CE:Nov 66:99

- New York--Penn Station nearly demolished but operative, CE:Jan 66:93

- New York--office building bridges railroad tracks, CE:Oct 66:90

- Pennsylvania--High-speed ground travel to be studied, CE:June 66:97

- Putting a Movable Bridge Span Back in Swing, Remy P. Papp, CE:July 66:36

- Renaissance in Rapid Transit, Kneeland A. Godfrey, Jr., CE:Dec 66:28

- Structural Welding Codes Revised, Arsham Amirikian, CE:July 66:34

**RAILROADS Continued**

Technological Aspects of Urban Transportation,  
Donald S. Berry and Paul W. Shuldiner, HW1:  
Jan 64:53:3768  
TR:131:205

**RAINFALL**

County Rain-Gage Network Useful in Design,  
Alfred R. Pagan and Ronald Rothenberg, CE:  
Apr 65:68

TR:131:269

Design Criteria for Interceptor Sewers for St.  
Louis, Erwin E. Bloss, SA4:Aug 66:7:4877  
Hydrographs of Ephemeral Streams in the South-  
west, Kenneth G. Renard and Robert V. Keppel,  
HY2:Mar 66:33:4710

Irrigation Water Requirements of Lawns,  
Tyler H. Quackenbush and John T. Phelan, IR2:  
Jun 65:11:4350

TR:131:849

Sequential Generation of Rainfall and Runoff  
Data, Ven Te Chow and S. Ramaseshan, HY4:  
Jul 65:205:4416

TR:131:696

**RAPID TRANSIT**

Airports and Transit Systems--the Engineer's  
Challenge, J.K. Carr, CE:Apr 65:38

Dsc: Herbert C. Westfall, CE:Jun 65:72

TR:131:233

The BART Trans-Bay Tube, George J. Murphy  
with Donald N. Tanner, CE:Dec 66:51

California--BARTD to build underwater rapid  
transit tube, CE:Mar 66:107

California--First section of Trans-Bay tube  
launched in San Francisco Bay, CE:Nov 66:96

California--Rapid-Transit Test Track for San  
Francisco, Leslie A. Irvin, CE:Aug 65:48

TR:131:496

California--Work starts on tube under San  
Francisco Bay, CE:June 66:96

Canada--Automated train for 1967 Montreal  
Fair, CE:Jan 66:95

Canada--Montreal subway nears completion,  
CE:Oct 66:91

The Civil Engineer in Rapid Transit, John E.  
Everson, CE:Jan 66:60

Design contract for Washington D. C. rapid  
transit system awarded to Harry Weese &  
Associates, CE:May 66:93

Hawaii--Transit study for Oahu planned, CE:  
Aug 66:96

High-speed trains in Northeast corridor, CE:  
Dec 66:80

Jackson, Miss. in 2039 A.D., CE:Apr 65:59

Dsc: George C. Stewart, CE:Jul 65:75

TR:131:252

Large U.S. cities plan rapid transit systems,  
CE:June 66:100

Minnesota--Monorail studied for twin cities'  
transit, CE:Apr 66:81

The Netherlands--Rotterdam's Rapid Transit  
Tunnel, Ir G. Plantema, CE:Aug 65:34

TR:131:520

New York--Long Island Railroad tests first  
turbine rail car, CE:Nov 66:99

Pennsylvania--High-Speed ground travel to be  
studied, CE:June 66:97

Renaissance in Rapid Transit, Kneeland A.  
Godfrey, Jr., CE:Dec 66:28

Technological Aspects of Urban Transportation,  
Donald S. Berry and Paul W. Shuldiner, HW1:  
Jan 64:53:3768

TR:131:205

Washington--Seattle's preliminary plans for  
rapid transit line, CE:Mar 66:103

Westinghouse designs experimental transit  
system, CE:Dec 66:82

**REACTORS**

Reactor Containment and Environmental Con-  
siderations, Raymond O. Brittan, UP1:Sep 64:  
21:4037

TR:131:315

**RECLAMATION**

Forest Drainage Research in the Coastal  
Plain, Ralph A. Klawitter and Cortland E.

Young, Jr., IR3:Sep 65:1:4456

TR:131:736

Quality Aspects of Waste Water Reclamation,  
Paul R. Bonderson, SA5:Oct 64:1:4104

TR:131:169

**RECREATIONAL FACILITIES**

New York--Largest steel girder in N.Y.C. to  
support Madison Square Garden Center, CE:  
Sept 66:102

New York--New Metropolitan Opera House  
opens, CE:Nov 66:98

New York--Saratoga Center for Performing  
Arts opens, CE:July 66:87

New York--Steel for Madison Square Garden  
Center, CE:May 66:93

New York--Unique dome houses skating rink  
and swimming pool, CE:Aug 66:94

Principles for a Sound National Water Policy,  
CE:Dec 66:38

Utah--A National Forest at Vernal Goes Mod-  
ern, D.G. Dalley, CE:Sep 65:67

TR:131:768

Water Recreation and the Public Water Supply,  
Frank M. Stead, CE:Nov 66:54

**REFUSE DISPOSAL**

Economics of Composting Municipal Refuse in  
Europe and Israel, George J. Kupchik, SA6:Dec  
66:41:5036

**REGIONAL PLANNING**

Operations Research Approach to the Recipro-  
cal Impact of Transportation and Land Use,

William S. Pollard, Jr., UP1:May 66:21:4812

What Happens When Metropolitan Areas Meet?,  
Alan M. Voorhees, UP1:May 66:13:4811

**REGISTRATION**

Action or Retreat for Civil Engineers and  
Surveyors in Regulation of Professional Practice,  
William A. White, CE:Jan 66:54

ASCE Supports Engineering Registration, CE:  
Apr 66:25

**REGISTRATION Continued**

The Dilemma of the Professional Engineers' Licensing Program, Arthur W. Weber, CE: May 65:37

Dsc: Thornton Smith, CE: Sep 65:74

TR:131:317

Engineering Registration--Why and What Not, Wallace L. Chadwick, CE: Sept 66:39

Dsc, Walter H. Wheeler, CE: Nov 66:77;

Lester A. Hoel, Nov 66:77

**REGULATIONS**

Environmental Effects of Flood Plain Regulations, Eugene W. Weber and Walter G. Sutton, HY4: Jul 65:59:4402

TR:131:805

**REINFORCED CONCRETE**

Behavior of Reinforced Concrete Columns with Sidesway, Edward O. Pfrang, ST3: Jun 66:225:4853

Behavior of Restrained Reinforced Concrete Columns, Edward O. Pfrang and Chester P. Siess, ST5: Oct 64:113:4111

TR:131:341

Deflections of Multiple-Panel Reinforced Concrete Floor Slabs, Mortimer D. Vanderbilt, Mete A. Sozen, and Chester P. Siess, ST4: Aug 65:77:4439

TR:131:769

Limit Design by Successive Moment Distribution, Carl Berwanger, ST1: Feb 66:405:4691

Limit Design of Continuous Reinforced Concrete Crane Grids, M. Z. Cohn, ST3: Jun 66:161:4850

Masonry Walls on Continuous Beams, Saky Rosenhaupt and Yehuda Sakal, ST1: Feb 65:155:4226

TR:131:504

Plastic Hinging in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5: Oct 66:45:4931

Predicting Structural Behavior Analytically, Edward O. Pfrang and Chester P. Siess, ST5: Oct 64:99:4110

TR:131:289

Proceedings of 1964 International Symposium on Flexural Mechanics of Reinforced Concrete released by ASCE and American Concrete Institute, CE: June 66:88

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Reinforced Concrete Research Council meets in Chicago, CE: Jan 66:76

Repeated and Reversed Loading in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5: Oct 66:65:4932

Rotational Capacity of Reinforced Concrete Beams, W. Gene Corley, ST5: Oct 66:121:4939

Strength of Reinforced Concrete Folded Plate Models, Alexander C. Scordelis and Peter V. Gerasimenko, ST1: Feb 66:351:4688

Test of a Flat Slab Reinforced with Welded Wire Fabric, James O. Jirsa, Mete A. Sozen, and Chester P. Siess, ST3: Jun 66:199:4852

Ultimate Strength of Reinforced Concrete Flat Slabs, Morris W. Self, ST4: Aug 64:205:4013

TR:131:27

**REINFORCEMENT**

Creep in Grouted Sleeve Splices of Reinforcing Bars, Don Ivey, CE: Aug 66:54

Reinforcing for a Rectangular Opening in a Plate, Robert R. Snell and Marion B. Scott, ST4: Aug 65:169:4451

TR:131:463

**RELIGIOUS BUILDINGS**

A Church of Unusual Design, Loton R. Eastman, CE: Sept 66:54

**REPORTS**

ASCE Preliminary Research on Pipeline Flotation: Report of the Pipeline Flotation Research Council, ASCE, Robert A. Rait, Chmn., PL1: Mar 66:27:4737

Civil Engineering Education--Report on Membership Poll of Metropolitan Section, CE: Apr 66:50

Encourage Applied Research and Publish the Findings, Joseph T. Ling, SA4: Aug 66:1:4876

Guide for the Civil Engineering Visitor on ECPD Accreditation Teams: Report of the Task Committee on Accreditation of the Committee on Engineering Education, ASCE, Ross E. McKinney, Chmn., PPI: May 66:1:4814

Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, G. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6: Nov 66:61:4975

A New Look at Engineering Reports, Robert W. Richards, CE: Oct 66:52

1965 ASCE Salary Survey: Report of the Committee on Employment Conditions of the Department of Conditions of Practice, ASCE, Franklin Pitcher, Chmn., PPI: May 66:33:4820

Processing Streamflow Data: Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F. J. Flynn, Chmn., HY2: Mar 66:145:4725

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A Research Program in Surveying and Mapping: Progress Report of the Research Committee of the Surveying and Mapping Division, ASCE, R. H. Moore, Chmn., SU1: Jan 66:25:4629

Translation of Foreign Literature on Hydraulics: Eighth Progress Report of the Task Force on List of Translations of the Committee on Hydromechanics, ASCE, Jan C. Van Tienhoven, Chmn., HY2: Mar 66:53:4713

**RESEARCH**

ASCE Preliminary Research on Pipeline Flotation: Report of the Pipeline Flotation Research Council, ASCE, Robert A. Rait, Chmn., PL1: Mar 66:27:4737



## RESEARCH Continued

ASCE sewer research starts with comminuting, CE:Nov 66:79

Behavior of a Soil Mass Under Dynamic Loading, R.W. Sparrow and A.C. Tory, SM3:May 66:59:4825

The Challenge of Solid-Waste Research, Ross E. McKinney, SA5:Oct 66:1:4924

Civil Engineering in City and Regional Planning, Melville C. Branch and L.M.K. Boelter, UPI:May 66:53:4827

Computer System Designed for Teaching and Structural Research at MIT, William Little and Kenneth Reinschmidt, CE:Aug 65:71

TR:131:542

Control of Weeds Harmful to Water Uses in the West, F. Leonard Timmons, WW1:Feb 66:47:4645

Development of a New Type of Rapid Sand Filter, Raymond E. Herbert, SA1:Feb 66:31:4649

Education in Materials for Civil Engineers, Frederick J. McGarry, CE:June 66:73

Effect of Foreign Inclusions on Properties of Solids, Longin B. Greszczuk, EM6:Dec 66:63:5029

Encourage Applied Research and Publish the Findings, Joseph T. Ling, SA4:Aug 66:1:4876  
Engineering Foundation Research 1966 Summer Conferences, CE:May 66:48

Factors Considered in Urban Transportation Planning, Charles G. Beer, HW2:Dec 65:51:4582  
TR:131:874

Federal Water Pollution Control Laboratories, David H. Howells, SA2:Apr 66:43:4758  
50th Anniversary Symposium, PCA, CE:Mar 66:32

Forest Drainage Research in the Coastal Plain, Ralph A. Klawitter and Cortland E. Young, Jr., IR3:Sep 65:1:4456

TR:131:736

Highway Research Board's annual meeting, Jan. 17-21, Wash. D.C., CE:Feb 66:86

History and Techniques of Modern Urban Planning, Wolfgang G. Roeseler, UPI:May 66:5:4810  
Inter-American Program: Past, Present, and Future, Frederick J. McGarry and Charles L. Miller, PP2:Dec 66:7:5038

International Congress on Prestressed Concrete Presents Challenges to American Engineers, Ben C. Gerwick, Jr., CE:Oct 66:62  
Lime Reactivity of Illinois, Marshall R. Thompson, SM5:Sept 66:67:4907

Needed Research Projects in Surface Water Hydrology, Task Committee on Development of Research Projects in Surface Water Hydrology, Hydraulics Division, ASCE, Carl W. Morgan, Chmn., HY6:Nov 66:101:4982

1966 Engineering Foundation research conferences, CE:Apr 66:74

Research Board awards contract on national highway needs, CE:Aug 66:96

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Research or Practice--Which Way to Go? (The Younger Viewpoint) Joel I. Abrams and John B. Scalzi, CE:June 66:34

A Research Program in Surveying and Mapping: Progress Report of the Research Committee of the Surveying and Mapping Division, ASCE, R.H. Moore, Chmn., SU1:Jan 66:25:4629

A Revolution in the Water Resources Field,

William Whipple, Jr., CE:Dec 65:63

Dsc: Asit K. Biswas, CE:Apr 66:64

TR:131:750

Rotational Capacity of Reinforced Concrete

Beams, W. Gene Corley, ST5:Oct 66:121:4939

Weather Modifications, University of Wyoming,

Merlin C. Williams, HY1:Jan 65:93:4203

TR:131:391

The Systems Approach to Traffic Safety, Rex

M. Whitton, CE:Sept 66:40

Dsc, Wilson T. Ballard, CE:Dec 66:61

## RESERVOIRS

Design Drouth Criteria, Robert S. Gooch,

HY2:Mar 66:233:4731

Determining Bank Storage of Lake Mead,

Paul A. Rechar, IR1:Mar 65:141:4268

TR:131:639

Dustfall as a Source of Water Quality Impairment, Richard E. Johnson, August T. Rossano,

and Robert O. Sylvester, SA1:Feb 66:245:4694

Hydropower Project Output Optimization,

Warren A. Hall and Theodore G. Roefs, PO1:

Jan 66:67:4628

Impoundment Destratification by Mechanical

Pumping, William H. Irwin, James M. Symons,

and Gordon G. Robeck, SA6:Dec 66:21:5032

Irrigation in India: Past and Present, Asit K.

Biswas, IR1:Mar 65:179:4277

TR:131:523

New York--Proposal to use Storm King Reservoir, CE:Jan, 66:93

Predicting Temperatures in Rivers and

Reservoirs, William H. Delay and John Seaders,

SA1:Feb 66:115:4675

Water Recreation and the Public Water Supply,

Frank M. Stead, CE:Nov 66:54

## RETAINING WALLS

Earth Pressures for Bilinear Backfill Surface,

B. Satyanarayana, SM1:Jan 65:99:4209

TR:131:295

Minimum Base Lengths for Cantilever Retaining

Walls, Semih Tezcan, CE:Oct 65:84

TR:131:683

## REVETMENTS

Cellular Concrete Block Revetment, D.A.

Parsons and R.P. Apmann, CE:Feb 65:66

TR:131:128

Comprehensive River Stabilization, Walter C.

Carey, WW1:Feb 66:59:4672

Influence of Soil Types on Stabilization of the

Savannah River, William J. Wall, WW3:Aug 65:

7:4430

TR:131:717

Stabilizing the Lower Mississippi River,

Ellsworth I. Davis and Ernest B. Lipscomb, CE:

Nov 65:64

TR:131:630



## RIVERS

- Bank Erosion in Soils of the Lower Mississippi Valley, Willard J. Turnbull, Ellis L. Kirnitsky, and Frank J. Weaver, SM1:Jan 66:121:4632  
Comprehensive River Stabilization, Walter C. Carey, WW1:Feb 66:59:4672  
Design Criteria for Interceptor Sewers for St. Louis, Erwin E. Bloss, SA4:Aug 66:7:4877  
Foreshore Protection, Lower Mississippi River, Rudolf Hertzberg, WW2:May 65:1:4305  
TR:131:573  
Formation of Ice Covers and Ice Jams in Rivers, Ernest Pariact, René Hausser, and André Gagnon, HY6:Nov 66:1:4965  
Inland Delta Building Activity of Kosi River, Chintaman V. Gole and Shrikrishnan V. Chitale, HY2:Mar 66:111:4722  
Laboratory Contributions to Channel Stabilization, Margaret S. Peterson, WW1:Feb 66:87:4673  
Movable Bed Model for River Structure Design, Howard E. Christian, Warren J. Mellema, and Walter M. Cinder, WW3:Aug 66:45:4883  
Nomenclature for Bed Forms in Alluvial Channels: Report of the Task Force on Bed Forms in Alluvial Channels, ASCE, John F. Kennedy, Chmn., HY3:May 66:51:4823  
Principles For a Sound National Water Policy, CE:Dec 66:38  
Regional Drought Frequency Analysis, William Whipple, Jr., IR2:Jun 66:11:4837  
River Flood Flows, Forecasts and Probabilities, Michael C. Quick, HY3:May 65:1:4312  
TR:131:546  
River Hydrology, or Fluviology, for Engineers, T. Blench, CE:Nov 66:56  
The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950  
Salinity Problems and Management in River Systems, Arthur F. Pillsbury and Harry F. Blaney, IR1:Mar 66:77:4733  
Snake River Bank Stabilization, Leland B. Jones, WW1:Feb 66:1:4642  
Stabilizing the Lower Mississippi River, Ellsworth I. Davis and Ernest B. Lipscomb, CE:Nov 65:64  
TR:131:630  
Tidal Characteristics of Two Estuaries in Florida, William B. Stelzenmuller, WW3:Aug 65:23:4431  
TR:131:545

## RIVETS

- Behavior of Fasteners and Plates with Holes, John W. Fisher, ST6:Dec 65:265:4587  
TR:131:854

## ROADS

- American Road Builders Association annual convention, Denver, Feb. 20-23, CE:Apr 66:78  
Highway Safety Elements in Aesthetic Design, James A. Head, HW2:Oct 66:15:4918

## ROCK (Material)

- Tunnel Design in Massive Rocks, Lawrence Adler, SM6:Nov 66:189:4989

## ROCKFILL DAMS

- Control of Earth and Rockfill for Oroville Dam, Bernard B. Gordon and Robert K. Miller, SM3:May 66:1:4822  
Earthquake Stability of Slopes of Cohesionless Soils, H. Bolton Seed and Richard E. Goodman, SM6:Nov 64:43:4128  
TR:131:466  
The Lewis Smith Rockfill Dam, James A. Tyson, PO1:Jan 66:81:4633  
Rockfill Design-Carters Dam, Fred A. Roberson and Robert L. Crisp, Jr., CO3:Sept 66:51:4906  
Rockfill Structures Subject to Water Flow, Alan K. Parkins, David H. Trollope, and John D. Lawson, SM6:Nov 66:135:4973

## ROCK MECHANICS

- First International Congress on Rock Mechanics, Jacob Feld, CE:Dec 66:58  
Rock Properties Interpreted from Sonic Velocity Logs, Roderick D. Carroll, SM2:Mar 66:43:4715  
Tunnel Design in Massive Rocks, Lawrence Adler, SM6:Nov 66:189:4989  
Wyoming--Rock Mechanics Study in Highway Tunnels Determines Design of Supports and Lining, Howard B. Dutro, CE:Feb 66:60

## ROOFS

- Analysis Comparisons for Single Curved Shell Roofs, Paul E. Mast, ST2:Apr 65:1:4282  
TR:131:790  
Cable-Supported Warehouse Roof Provides Large Open Area, Fred Fischer, Jr., CE:Sept 66:43  
Dsc, Walter H. Wheeler, CE:Dec 66:61  
A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54  
Geometry of Suspended Cloth Roofs, Avinadav Slev, ST6:Dec 65:251:4585  
TR:131:859  
Numerical Analysis of Translational Shell Roofs, Arthur W. Hedgren, Jr., and David P. Billington, ST1:Feb 66:223:4679  
Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units, Progress Report by the Task Committee on Precast Concrete Design and Construction, Structural Division, ASCE, P.H. Kaar, Chmn., ST5:Oct 66:119:4935  
Snow Loads for Roofs, Albert E. Anderson, CE:Jul 65:76  
TR:131:474  
Structural Behavior in a Gypsum Roof-Deck System, John E. Johnson and Albert D.M. Lewis, ST2:Apr 66:283:4789  
Utah--A National Forest at Vernal Goes Modern, D.G. Dalley, CE:Sep 65:67  
TR:131:768

**RUNOFF**

Areal Variations of Mean Annual Runoff, Allen G. Hely, HY5:Sep 64:61:4030

TR:131:41

Design Criteria for Interceptor Sewers for St. Louis, Erwin E. Bloss, SA4:Aug 66:7:4877  
Hydrographs of Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4710

Needed Research Projects in Surface Water Hydrology, Task Committee on Development of Research Projects in Surface Water Hydrology, Hydraulics Division, ASCE, Carl W. Morgan, Chmn., HY6:Nov 66:101:4982

Sequential Generation of Rainfall and Runoff Data, Ven Te Chow and S. Ramaseshan, HY4:Jul 65:205:4416

TR:131:696

Time in Urban Hydrology, Gene E. Willeke, HY1:Jan 66:13:4615

**RUNWAYS**

Response of Supersonic Transports to Runway Unevenness, Chi Chao Tung, Joseph Penzien and Robert Horonjeff, AT1:Jan 66:1:4603

**SAFETY**

Aircraft Arresting System, Francis J. Rhody, AT2:Oct 65:45:4493

TR:131:685

The Analysis of Structural Safety, Alfred M. Freudenthal, Jewell M. Garrets, and Masanobu Shinozuka, ST1:Feb 66:267:4682

Dsc, H. S. Fowler, CE:July 66:70 on an idea for safer automobiles

Dsc, Leonard F. Sanborn, CE:Nov 66:77, seeking data on "Are Engineers Safer Drivers?"  
Esthetics for the Highway Engineer, Gordon L. Kirjassoff, CE:Jan 66:69

Dsc, Emery Hertelendy, CE:Mar 66:74; Leon Goodman, CE:Apr 66:65

Highway Safety Elements in Aesthetic Design, James A. Head, HW2:Oct 66:15:4918

The Systems Approach to Traffic Safety, Rex M. Whitton, CE:Sept 66:40

Dsc, Wilson T. Ballard, CE:Dec 66:61

**SALARIES**

Committee on Employment Conditions survey shows higher salaries, CE:Apr 66:36  
EJC completes study of engineering technicians salaries, CE:Nov 66:53

Fringe Benefits in Civil Engineering Compensation, Clair A. Hill, CE:July 65:64  
TR:131:432

1965 ASCE Salary Survey: Report of the Committee on Employment Conditions of the Department of Conditions of Practice, ASCE, Franklin Pitcher, Chmn., PP1:May 66:33:4820  
Personnel for Inspection, Robert C. Briggs, CE:June 66:56

Self-Preservation in the Market Place, James A. Christenson, CE:May 66:67

Dsc, Marvin E. Warner, CE:Aug 66:74

**SALINITY**

Salinity Problems and Management in River Systems, Arthur F. Pillsbury and Harry F. Blaney, IR1:Mar 66:77:4733

**SALMONELLA TYPHI**

Survival of S. Typhi in Sewage Oxidation Ponds, Michael G. McGarry and Patrick H. Bouthillier, SA4:Aug 66:33:4878

**SAND (Material)**

Bed-Load Transport at High Shear Stress, Kenneth C. Wilson, HY6:Nov 66:49:4968

Earthquake-Induced Displacements in Sand Embankments, R. E. Goodman and H. Bolton Seed, SM2:Mar 66:125:4736

Liquefaction of Saturated Sands During Cyclic Loading, H. Bolton Seed and Kenneth L. Lee, SM6:Nov 66:105:4972

Mechanism of Sand Movement on Coastal Dunes, Abdel-Latif A. Kadib, WW2:May 66:27:4817

The Nature of Damping in Sands, Bobby O. Hardin, SM1:Jan 65:63:4206

TR:131:299

Sand Stiffness Under Various Triaxial Stresses, Bobby O. Hardin and William L. Black, SM2:Mar 66:27:4712

Shock-Induced Stress Wave Propagation in Sand, Ernest T. Selig and Eben Vey, SM3:May 65:10:4332

TR:131:125

Spectral Analysis of Sand Waves, Carl F. Nordin, Jr., and James H. Algert, HY5:Sept 66:95:4910

Study of Dynamic and Static Failure Envelopes, B. B. Schimming, H. J. Haas, and H. C. Saxe, SM2:Mar 66:105:4735

Yielding and Locking of Confined Sand, Robert V. Whitman, T. Edmond, and Peter J. Moore, SM4:Jul 64:57:3966

TR:131:197

**SANITARY ENGINEERING**

Air Pollution from Incinerators--Causes and Cures, Leo P. Flood, CE:Dec 65:44  
TR:131:734

Alaska--Utilities for a Relocated Town in Valdez, James W. Poirot, CE:Mar 65:50  
TR:131:173

The American Public Works Association to prepare courses for solid-waste personnel, CE:Aug 66:95

American Sanitary Engineering Intersociety Board schedules examination for May 23, CE:Feb 66:80

Analysis of Biological Filter Variables, William S. Galler and Harold B. Gotaas, SA6:Dec 64:59:4174

TR:131:237

Application of Radioactive Tracers to Stream Improvements, William A. Cawley and Wyman C. Rutledge, SA1:Feb 66:1:4640

Arkansas--Sludge Burning at North Little Rock, Arnold J. Tyer, CE:Mar 65:54

TR:131:215

# SANITARY ENGINEERING Continued

Better Activated Sludge by the Kessener-Brush  
Aeration Process, H.R. Carter, CE:Dec 65:67

TR:131:792

BOD and Oxygen Relationships in Streams.

William E. Dobbins, SA3:Jun 64:53:3949

TR:131:225

Canning Wastes Complicate Treatment at San  
Jose-Santa Clara Water Pollution Control Plant,

Frank M. Belick, CE:May 66:49

The Challenge of Solid-Waste Research, Ross  
E. McKinney, SA5:Oct 66:1:4924

Chicago's sanitary district superintendent

undeterred by bomb attempt, CE:Oct 66:82

Closed Ecological Systems, William J. Oswald,

Clarence G. Golueke, and D.O. Horning, SA4:

Aug 65:23:4445

TR:131:868

Closed Loop Chlorination Control, Leo J.

Carroll, SA2:Apr 66:51:4760

Colorado--Denver's Metro Waste Treatment

Plant, William L. Bredar, CE:Dec 65:64

TR:131:687

Combination Sewer Separated into Sanitary and  
Storm Lines at Low Cost, CE:May 66:55

Compartmentalization of Aeration Tanks,

William F. Milbury, Wesley O. Pipes, and

Robert B. Grieves, SA3:Jun 65:45:4362

TR:131:748

Data Handling Systems in Water Pollution

Control, Richard S. Green, Donald P. Dubois,

and Clarence W. Tutwiller, SA1:Feb 66:55:4652

Deep Well Waste Injection--Reaction with

Aquifer Water, Don L. Warner, SA4:Aug 66:

45:4881

Deep Tunnel Plan proposed for the Chicago  
Area, CE:July 66:87

Design Aspects of Lompoc Water Treatment

Plant, Charles H. Lawrence, SA6:Dec 64:81:

4181

TR:131:275

Design Criteria for Interceptor Sewers for St.

Louis, Erwin E. Bloss, SA4:Aug 66:7:4877

Design of Anaerobic Digestion Systems,

Raymond C. Loehr, SA1:Feb 66:19:4648

Development of a New Type of Rapid Sand

Filter, Raymond E. Hebert, SA1:Feb 66:31:

4649

Dichromate Versus Ceric Sulphate in COD

Determinations, M. A. El-Dib and F. M.

Ramadan, SA2:Apr 66:97:4795

Dispersion Measurement in Open Channels,

Calvin C. Patterson and Earnest F. Gloyna,

SA3:Jun 65:17:4347

TR:131:466

Drainage Characteristics of Digested Sludge,

Jimmie E. Quon and Glenn M. Johnson, SA2:

Apr 66:87:4762

Dac, Edward J. Cleary, CE:Oct 66:87 on the

attack on Vinton W. Bacon

Dustfall as a Source of Water Quality Impair-

ment, Richard E. Johnson, August T. Rossano,

and Robert O. Sylvester, SA1:Feb 66:245:4694

Economics of Composting Municipal Refuse in

Europe and Israel, George J. Kupchik, SA6:

Dec 66:41:5036

Education for Sanitary Engineers, E. Sherman  
Chase, PP2:May 64:15:3894

TR:131:301

Effect of Backwash on Filter Effluent Quality,

Robert L. Johnson and John L. Cleasby, SA1:

Feb 66:215:4692

Effects of CO<sub>2</sub> and N<sub>2</sub> on Anaerobic Digestion,

Kenneth E. Hartz and R. Rupert Kountz, SA2:

Apr 66:83:4771

Encourage Applied Research and Publish the

Findings, Joseph T. Ling, SA4:Aug 66:1:4876

Environmental Hazards of Radioactive Wastes,

Joe O. Ledbetter, SA1:Feb 65:59:4237

TR:131:615

Estuarine Water Quality Management and Fore-

casting, Robert V. Thomann and Matthew J.

Sobel, SA5:Oct 64:9:4116

TR:131:808

Evaluation of Two Aerated Lagoons, Ross E.

McKinney and Henry H. Benjes, Jr., SA6:

Dec 65:43:4589

TR:131:842

Experimental Evaluation of Sand Filtration

Theory, David M. Fox and John L. Cleasby,

SA5:Oct 66:61:4941

Federal Water Pollution Control Laboratories,

David H. Howells, SA2:Apr 66:43:4758

Field Techniques for Evaluating Aeration,

Richard A. Conway and Gordon W. Kumke, SA2:

Apr 66:21:4757

Filtration Through Size-Graded Media, Ernest

W.J. Diaper and Kenneth J. Ives, SA3:Jun 65:

89:4378

TR:131:771

First demonstration refuse-to-compost plant

for reclaiming municipal garbage and sewage

sludge, CE:Aug 66:98

Flow Characteristics of PVC Sewer Pipe, Law-

rence C. Neale and Robert E. Price, SA3:Jun

64:109:3955

TR:131:840

Foam Separation for Water Clarification,

Robert B. Grieves, SA1:Feb 66:41:4650

Free-Living Nematode Removal by Rapid Sand

Filters, Ronald L. Peterson, R. S. Engel-

brecht, and John H. Austin, SA1:Feb 66:229:4693

Homogeneous Activated Sludge--Wastewater

Treatment at Lower Cost, H. S. Smith and Wayne

L. Paulson, CE:May 66:56

Hydrology of Water Quality Dilution Require-

ments, Malcolm F. Kallus and Jack W. Keeley,

SA5:Oct 66:7:4930

Impoundment Destratification by Mechanical

Pumping, William H. Irwin, James M. Symons,

and Gordon G. Robeck, SA6:Dec 66:21:5032

In Situ Measurement of Solids in Final Clari-

fiers, E. Arlyn, Richard E. Wulschlegler, and

William J. Katz, SA1:Feb 66:183:4686

Intensity of Radiation and Rate Sludge Drying,

Jimmie E. Quon and Thomas A. Tamblin, SA2:

Apr 65:17:4295

TR:131:249

Life Support Requirements for Space Missions,

Charles M. Proctor, SA2:Apr 65:1:4288

TR:131:155

**SANITARY ENGINEERING Continued**

Manifolds, Rotating and Stationary, Chester J. Ordon, SA1:Feb 66:269:4696

Mass and Energy Relationships in Anaerobic Digestion, Edward D. Schroeder and Arthur W. Busch, SA1:Feb 66:85:4655

Mathematical Model for Water Pollution Control Programs, Alvin S. Goodman and William E. Dobbins, SA6:Dec 66:1:5031

Missouri--Pollution Abatement Program for Kansas City, Glen J. Hopkins, CE: Sep 65:39

TR:131:571

Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66: 23:4936

Nominal Diameter of Floc Related to Oxygen Transfer, James A. Mueller, Karl G. Voelkel, and William C. Boyle, SA2:Apr 66:9:4756

Nutrient Removal by Effluent Spraying, Herbert B. Foster, Jr., Paul C. Ward, and Arnold A. Prucha, SA6:Dec 65:1:4556

TR:131:820

Office of Solid Wastes established in Public Health Service, CE:Mar 66:104

Optimization Analysis for Biological Filter Design, William S. Galler and Harold S. Gotaas, SA1:Feb 66:163:4684

Optimizing Sampling Intervals in Tidal Estuaries, Charles G. Gunnerson, SA2:Apr 66:103:4799

Orthokinetic Flocculation in Water Purification, Howard S. Harris, Warren J. Kaufman, and Ray B. Krone, SA6:Dec 66:95:5027

Oxidation of Coal Mine Pyrite, C. Scott Clark, SA2:Apr 66:127:4802

An Oxidation Pond as a Tertiary Treatment Device, Raymond C. Loehr and Ralph L. Stephenson, SA3:Jun 65:31:4351

TR:131:877

Partial Demineralization of Brackish Waters, Robert L. Sanks and Warren J. Kaufman, SA6: Dec 66:57:5037

Precipitation of Iron in Aerated Ground Waters, Mriganka M. Ghosh, John T. O'Connor, and R. S. Engelbrecht, SA1:Feb 66:199:4687

Predicting Temperatures in Rivers and Reservoirs, William H. Delay and John Seaders, SA1:Feb 66:115:4675

Quality Aspects of Waste Water Reclamation, Paul R. Bonderson, SA5:Oct 64:1:4104

TR:131:169

Radioactive Equilibrium Time, William A. Goldsmith and Eddie Joe Middlebrooks, SA6: Dec 66:85:5045

Rational Aspects of Split Treatment Lime Softening, John L. Cleasby and James H. Dillingham, SA2:Apr 66:1:4755

Reassessing an Old Problem--Acid Mine Drainage, Ralph Porges, Lowell A. Van Den Berg, and Dwight Ballinger, SA1:Feb 66:69:4654

Redwood Bark for Sewage Treatment, Edward F. Carpenter, SA1:Feb 66:11:4641

Remote Conversational Computing in Civil Engineering, S. H. Haackel and M. D. Sinkoff, CE:Apr 66:39

Dsc, Morton B. Lipetz, CE:June 66:79

River and Laboratory BOD Rate Considerations, John J. Gannon, SA1:Feb 66:135:4681

Role of Protozoa in the Diphase Exertion of BOD, Manmohan N. Bhatla and Anthony F. Gaudy, Jr., SA3:Jun 65:63:4371

TR:131:507

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

Sand Filtration of Particulate Matter, Eric Davis and Jack A. Borchardt, SA5:Oct 66:47: 4940

Scope of the Solid Waste Problem, Wesley E. Gilbertson, SA3:Jun 66:1:4833

Second Order Equation for BOD, James C. Young and John W. Clark, SA1:Feb 65:43:4232

TR:131:267

Sensitivity Analysis of Activated Sludge Economics, Bernard C. McBeath and Rolf Eliassen, SA2:Apr 66:147:4803

Solid Waste Disposal Act passed by Congress, CE:Jan 66:93

Studies in Force Main Aeration, James E. Laughlin, SA6:Dec 64:13:4150

TR:131:179

Survival of *S. Typhi* in Sewage Oxidation Ponds, Michael G. McGarry and Patrick H. Bouthillier, SA4:Aug 66:33:4878

Theory of Water Filtration, Thomas R. Camp, SA4:Aug 64:1:3990

TR:131:1

Trickling Filter Stone Gradation and Placement, Ronald F. Wukash and Don E. Bloodgood, SA2:Apr 66:59:4761

Turbulent Flow in Porous Media, John C. Ward, HY5:Sep 64:1:4019

TR:131:664

Turbulent Mixing Phenomena of Ocean Outfalls, Richard J. Frankel and James D. Cumming, SA2:Apr 65:33:4297

TR:131:728

Virus Removal in Sewage Treatment, Albert F. Bush and John D. Isherwood, SA1:Feb 66: 99:4653

Washington--Seattle's Record-Breaking Sewage-Treatment System, Fred E. Lange, CE:Mar 66:31

TR:131:151

Water for the World, M.D. Morris, William E. Wood, James J. Geraghty, James Gould, Gordon R. Williams, Donald F. Othmer, Donald R. Lueder, Malcolm Pirnie, Jr., and Arthur C. Ford, SA1:Feb 65:1:4220

TR:131:802

Water Renovation--Some Advanced Treatment Processes, David G. Stephan, CE:

Sep 65:46

TR:131:563

West Virginia--TV Proves Useful for Sewer Inspection by Corps of Engineers, Richard H. Hayes, CE:Jan 66:66

What is Pollution? An Engineer's Viewpoint, Paul D. Haney, SA1:Feb 66:109:4659

Wickenburg Sewage Treatment Plant--An Application of a New Process, J. E. Schaefer, CE:Nov 66:35

**SAN JOAQUIN VALLEY, CALIFORNIA**

Waste Water Disposal: San Joaquin Valley,  
California, Elmo W. Huffman, IR2:Jun 66:47:  
4847

**SCHOLARSHIPS**

Boris A. Bakhmeteff research fellowship avail-  
able, CE:Aug 66:80

See, (ASCE) Awards & Prizes

**SCHOOLS**

Guide for the Civil Engineering Visitor on  
ECPD Accreditation Teams: Report of the Task  
Committee on Accreditation of the Committee on  
Engineering Education, ASCE, Ross E. Mc-  
Kinney, Chmn., PP1:May 66:1:4814

Prestressed Lift Slabs Withstand Fire,  
G. E. Troxell, CE:Sep 65:64  
TR:131:762

Professional Schools Granting Professional  
Degrees Needed, H. T. Miller, CE:July 66:61

**SCOTLAND**

Sidestream Intakes for Hydro Power in Scot-  
land, Edgar Burke Wilson and John Alexander  
Stevenson, PO1:Jan 66:1:4601

**SEAPORTS**

Optimum Size Seaport, Carl H. Plumlee,  
WW3:Aug 66:1:4880

**SECONDARY FLOW (Currents)**

Effect of Secondary Currents on Sediment  
Transport in a Corner, Chao-Lin Chiu and  
John E. McSparran, HY5:Sept 66:57:4905

**SEDIMENTATION**

Abstracted Bibliography on Erosion of Co-  
hesive Materials: Task Committee on Erosion  
of Cohesive Materials, Committee on Sedi-  
mentation, ASCE, Frank D. Masch, Chmn., HY2:  
Mar 66:243:4746

Channel Gradients Above Gully-Control Struc-  
tures, David A. Woolhiser and Arno E. Lenz,  
HY3:May 65:165:4333

TR:131:619

Drop-Box Weir for Sediment-Laden Flow  
Measurements, Clifton W. Johnson, Howard D.  
Copp, and Roy E. Tinney, HY5:Sept 66:165:4916

Equilibrium Depth of Scour in Long Constric-  
tions, Saburo Komura, HY5:Sept 66:17:4898

European Concepts of Sediment Transportation,  
John L. Bogardi, HY1:Jan 65:29:4195

TR:131:860

Nomenclature for Bed Forms in Alluvial  
Channels: Report of the Task Force on Bed  
Forms in Alluvial Channels, ASCE, John F.  
Kennedy, Chmn., HY3:May 66:51:4823

Sediment Transportation Mechanics: Initiation  
of Motion: Progress Report of the Task Com-  
mittee on Preparation of Sedimentation Manual,  
ASCE, Vito A. Vanoni, Chmn., HY2:Mar 66:  
29L:4738

Stability of Channels by Armorplating, Dasel  
E. Hallmark and George L. Smith, WW3:Aug 65:  
117:4452

TR:131:796

**SEDIMENTS**

ASCE Preliminary Research on Pipeline Flo-  
tation: Report of the Pipeline Flotation Research  
Council, ASCE, Robert A. Rait, Chmn., PL1:  
Mar 66:27:4737

Bed Forms Due to a Fluid Stream, Harry M.  
Hill, HY2:Mar 66:127:4724

Bed-Load Transport at High Shear Stress,  
Kenneth C. Wilson, HY6:Nov 66:49:4968

Design of Desilting Works for Irrigation Sys-  
tems, Floyd E. Dominy, IR4:Dec 66:1:4998

Diffusion of Sediment in a Submerged Jet,  
Surya Rao Singamsetti, HY2:Mar 66:153:4726

Effect of Secondary Currents on Sediment  
Transport in a Corner, Chao-Lin Chiu and John

E. McSparran, HY5:Sept 66:57:4905

Erosion and Deposition of Cohesive Soils,  
Emmanuel Partheniades, HY1:Jan 65:105:4204

TR:131:319

European Concepts of Sediment Transportation,  
John L. Bogardi, HY1:Jan 65:29:4195

TR:131:860

Hydraulic Resistance of Alluvial Streams,  
Frank Engelund, HY2:Mar 66:315:4739

Hyperconcentrations of Suspended Sediment,  
Joseph P. Beverage and James K. Culbertson,  
HY6:Nov 64:117:4136

TR:131:430

Loop Systems for Measuring Sand-Water Mix-  
tures, Hans A. Einstein and Walter H. Graf,  
HY1:Jan 66:1:4608

Mechanism of Sand Movement on Coastal  
Dunes, Abdel-Latif A. Kadib, WW2:May 66:  
27:4817

Mud Floods Related to the Irazu Volcano  
Eruptions, Carlos A. Ulate and Manuel F.  
Corrales, HY6:Nov 66:117:4984

River Hydrology, or Fluviology, for Engineers,  
T. Blench, CE:Nov 66:56

Sediment Transportation Mechanics: Initiation  
of Motion: Progress Report of the Task Com-  
mittee on Preparation of Sedimentation Manual,  
ASCE, Vito A. Vanoni, Chmn., HY2:Mar 66:  
291:4738

Similarity Laws for Localized Scour, Marion  
R. Carstens, HY3:May 66:13:4818

TR:131:430

Loop Systems for Measuring Sand-Water Mix-  
tures, Hans A. Einstein and Walter H. Graf,  
HY1:Jan 66:1:4608

Mechanism of Sand Movement on Coastal  
Dunes, Abdel-Latif A. Kadib, WW2:May 66:  
27:4817

Mud Floods Related to the Irazu Volcano  
Eruptions, Carlos A. Ulate and Manuel F.  
Corrales, HY6:Nov 66:117:4984

River Hydrology, or Fluviology, for Engineers,  
T. Blench, CE:Nov 66:56

Sediment Transportation Mechanics: Initiation  
of Motion: Progress Report of the Task Com-  
mittee on Preparation of Sedimentation Manual,  
ASCE, Vito A. Vanoni, Chmn., HY2:Mar 66:  
291:4738

Similarity Laws for Localized Scour, Marion  
R. Carstens, HY3:May 66:13:4818

**SEEPAGE**

Economic Problem of Irrigation Canals:  
Seepage Losses, Alfredo Bandini, IR4:Dec 66:  
35:5034

Exact Free Surface of Gravity Wells, Abdel-  
Aziz I. Kashaf, HY4:Jul 65:167:4413

TR:131:798

Natural Drainage of River Valleys, Hammad  
Y. Hammad, IR2:Jun 65:39:4360

TR:131:227

Nonlinear Differential Equation of Drain Spac-  
ing, William T. Moody, IR2:Jun 66:1:4835

North Carolina--Controlling Leakage from  
Cowans Ford Dam, Joe T. Moore, CE:Jun 65:  
52

TR:131:357

## SEEPAGE Continued

Permeability of Compacted Clay, James K. Mitchell, Don R. Hooper, and Richard G. Campenella, SM4:Jul 65:41:4392

TR:131:647

Resistance to Laminar Flow Through Porous Media, Ralph R. Rumer, Jr. and Philip A. Drinker, HY5:Sept 66:155:4914

Salt-Water Interface Near a Fresh-Water Canal, Norbert L. Ackermann and Pachern Sridurongkatum, HY6:Nov 64:97:4135

TR:131:381

Solution of Anisotropic Seepage by Finite Elements, Olgierd C. Zienkiewicz, Paul Mayer, and Yau Kai Cheung, EM1:Feb 66:111:4676

Steady-State Theories for Drainage, Don Kirkham, IR1:Mar 66:19:4707

Theoretical Aspects of Seepage from Open Channels, Herman Bouwer, HY3:May 65:37:4321

TR:131:377

Two-Dimensional Infiltration and Wetting Fronts, Sadik Toksoz, Don Kirkham and E. Baumann, IR3:Sep 65:65:4477

TR:131:514

Water Leakage at Form Ties, P. Jackson, CE:Nov 66:74

## SETTLEMENT (Structural)

Breakwater from No-Cost Fill in Flushing Bay, N. Y., Bogos Torikoglu, CE:July 66:58

Consolidation of Nonhomogeneous Clay Layers, Robert L. Schiffman and Robert E. Gibson, SM5:Sep 64:1:4043

TR:131:659

Differential Settlement at Selfridge Air Force Base, George B. Wallace and William C. Otto, SM5:Sep 64:197:4047

TR:131:70

Field Observations of Structures Damaged by Settlement, Donald McKinley, SM5:Sep 64:249:4054

TR:131:136

Foundation Clay Shrinkage Caused by Large Trees, Mark J. Hammer and Orville B. Thompson, SM6:Nov 66:1:4956

Foundations on Fissured Limestone--How They Were Selected, Henry M. Reitz, CE:Sep 65:52

TR:131:543

Interaction of Continuous Frames and Soil Media, David Morris, ST5:Oct 66:13:4929

Interpretation of the Consolidation Test, Carl B. Crawford, SM5:Sep 64:87:4056

TR:131:13

The Lewis Smith Rockfill Dam, James A. Tyson, PO1:Jan 66:81:4633

Methods of Estimating Settlement, T. William Lambe, SM5:Sep 64:43:4060

TR:131:65

Settlement of Buildings on the MIT Campus, Harry M. Horn and T. William Lambe, SM5:Sep 64:181:4038

TR:131:221

Shallow Foundations, George G. Meyerhof, SM2:Mar 65:21:4271

TR:131:441

State-of-the Art of Floating Foundations, Hugh Q. Golder, SM2:Mar 65:81:4278

TR:131:327

Subsurface Stabilization of Organic Silty Clay by Precompression, Ernest Jonas, SM5:Sep 64:363:4031

TR:131:242

Surface Settlement Adjacent to Braced Open Cuts, Marc S. Caspe, SM4:Jul 66:51:4867

Tolerance of Structures to Settlement, Jacob Feld, SM3:May 65:63:4336

TR:131:398

## SEWAGE

ASCE sewer research starts with comminuting, CE:Nov 66:79

Closed Loop Chlorination Control, Leo J. Carroll, SA2:Apr 66:51:4760

Design Criteria for Interceptor Sewers for St. Louis, Erwin E. Bloss, SA4:Aug 66:7:4877

Dsc, Meyer F. Wiles, CE:Nov 66:78 on the dumping of raw sewage into the nation's waterways, item in Do You Know That Column, CE:Aug 66:23

Thailand--Consulting engineers chosen for sewage works in Bangkok, CE:Nov 66:99

## SEWAGE DISPOSAL

Nutrient Removal by Effluent Spraying, Herbert B. Foster, Jr., Paul C. Ward, and Arnold A. Prucha, SA6:Dec 65:1:4556

TR:131:820

## SEWAGE TREATMENT

Arkansas--Sludge Burning at North Little Rock, Arnold J. Tyer, CE:Mar 65:54

TR:131:215

Better Activated Sludge by the Kessener-Brush Aeration Process, H.R. Carter, CE:Dec 65:67

TR:131:792

Canning Wastes Complicate Treatment at San Jose-Santa Clara Water Pollution Control Plant, Frank M. Belick, CE:May 66:49

Colorado--Denver's Metro Waste Treatment Plant, William L. Bredar, CE:Dec 65:64

TR:131:687

Design of Anaerobic Digestion Systems, Raymond C. Loehr, SA1:Feb 66:19:4648

Drainage Characteristics of Digested Sludge, Jimmie E. Quon and Glenn M. Johnson, SA2:Apr 66:67:4762

Evaluation of Two Aerated Lagoons, Ross E. McKinney and Henry H. Benjes, Jr., SA6:Dec 65:43:4589

TR:131:842

For the Civil Engineer--A Leadership Challenge, C.R. Ownbey, CE:Nov 66:75

Homogeneous Activated Sludge--Wastewater Treatment at Lower Cost, H.S. Smith and Wayne L. Paulson, CE:May 66:56

In Situ Measurement of Solids in Final Clarifiers, E. Arlyn, Richard S. Wulischleger, and William J. Katz, SA1:Feb 66:183:4686



**SEWAGE TREATMENT Continued**

Intensity of Radiation and Rate Sludge Drying,  
Jimmie E. Quon and Thomas A. Tamblin,  
SA2:Apr 65:17:4295

TR:131:249

Mass and Energy Relationships in Anaerobic  
Digestion, Edward D. Schroeder and Arthur W.  
Busch, SA1:Feb 66:85:4655

Mathematical Model for Water Pollution Con-  
trol Programs, Alvin S. Goodman and William  
E. Dobbins, SA6:Dec 66:1:5031

Missouri--Pollution Abatement Program for  
Kansas City, Glen J. Hopkins, CE:Sep 65:39  
TR:131:571

An Oxidation Pond as a Tertiary Treatment  
Device, Raymond C. Loefer and Ralph L.  
Stephenson, SA3:Jun 65:31:4351

TR:131:877

Peru--Arequipa to build sewage treatment  
plant, CE:Feb 66:91

Redwood Bark for Sewage Treatment, Edward  
F. Carpenter, SA1:Feb 66:11:4641

Survival of *S. Typhi* in Sewage Oxidation  
Ponds, Michael G. McGarry and Patrick H.  
Bouthillier, SA4:Aug 66:33:4878

Trickling Filter Stone Gradation and Place-  
ment, Ronald F. Wukasz and Don E. Blood-  
good, SA2:Apr 66:59:4761

Virus Removal in Sewage Treatment, Albert  
F. Bush and John D. Isherwood, SA1:Feb 66:  
99:4653

Washington--Seattle's Record-Breaking  
Sewage-Treatment System, Fred E. Lange,  
CE:Mar 65:31

TR:131:151

Wickenburg Sewage Treatment Plant--An  
Application of a New Process, J. E. Schaefer,  
CE:Nov 66:35

**SEWERAGE**

Alaska--Sewerage System for Anchorage area  
planned, CE:Oct 66:90

Director for ASCE Sewer Research Project  
chosen, CE:Mar 66:90; CE:May 66:47

Missouri--Pollution Abatement Program for  
Kansas City, Glen J. Hopkins, CE:Sep 65:39  
TR:131:571

West Virginia--TV Proves Useful for Sewer  
Inspection for Corps of Engineers, Richard H.  
Hayes, CE:Jan 66:66

**SEWERS**

Combination Sewer Separated into Sanitary and  
Storm Lines at Low Cost, CE:May 66:55

Design Criteria for Interceptor Sewers for St.  
Louis, Erwin E. Bloss, SA4:Aug 66:7:4877

Flow Characteristics of PVC Sewer Pipe, Law-  
rence C. Neale and Robert E. Price, SA3:Jun  
64:109:3955

TR:131:840

New Jersey--A Revolution in Sewer Main-  
tenance at Woodbridge, Charles W. Beagle,  
CE:Mar 65:34

TR:131:141

Revised Bibliography on Chemical Groutings;  
Third Progress Report of the Committee on  
Grouting, Soil Mechanics and Foundations  
Division, ASCE, W. K. Seaman, Chmn.,  
SM6:Nov 66:39:4969

"Sewers for Growing America" by Morris M.  
Cohn now available, CE:Nov 66:98  
Single-Port Suction Manifolds, Ronald E.  
Nece, Peter P. Goldstern, and Jared L. Black,  
HY1:Jan 66:43:4620  
Studies in Force Main Aeration, James E.  
Laughlin, SA6:Dec 64:13:4150  
TR:131:179

**SHEAR STRENGTH**

Anisotropy and Stress Reorientation in Clay,  
James M. Duncan and H. Bolton Seed, SM5:  
Sept 66:21:4903

ASCE Preliminary Research on Pipeline Flo-  
tation: Report of the Pipeline Flotation Research  
Council, ASCE, Robert A. Rait, Chmn., PL:  
Mar 66:27:4737

Behavior of Diaphragm-Braced Columns and  
Beams, George Pincus and Gordon P. Fisher,  
ST2:Apr 66:323:4792

Behavior of Fasteners and Plates with Holes,  
John W. Fisher, ST6:Dec 65:265:4587  
TR:131:854

In-Situ Strength Characteristics of Soft Clays,  
I. Noorany and H. Bolton Seed, SM2:Mar 65:49:  
4274

TR:131:323

Permeability of Compacted Clay, James K.  
Mitchell, Don R. Hooper, and Richard G. Camp-  
enella, SM4:Jul 65:41:4392

TR:131:647

Shear Strength of High-Strength Bolts, James  
J. Wallaert and John W. Fisher, ST3:Jun 65:99:  
4368

TR:131:766

Stability of Slopes in Anisotropic Soils, Kwan  
Yee Lo, SM4:Jul 65:4495

TR:131:518

Strength Characteristics of Desiccated Clays,  
Geoffrey E. Blight, SM6:Nov 66:19:4966

Strength Variation Along Failure Surfaces in  
Clay, J. M. Duncan and H. Bolton Seed, SM6:  
Nov 66:81:4971

Stress-Dilatancy Performance of Feldspar,  
I. K. Lee, SM2:Mar 66:79:4734

Tilt and Deflections of Tapered Polygonal  
Towers, Ralph J. Pschunder, ST3:Jun 65:151:  
4373

TR:131:143

**SHEAR STRESS**

Sediment Transportation Mechanics: Initiation  
of Motion: Progress Report of the Task Com-  
mittee on Preparation of Sedimentation  
Manual, ASCE, Vito A. Vanoni, Chmn., HY2:  
Mar 66:29L:4738

Shear Effects in Design of Guyed Towers,  
Robert A. Williamson and M. N. Margolin,  
ST5:Oct 66:213:4951

Strength Characteristics of Desiccated  
Clays, Geoffrey E. Blight, SM6:Nov 66:19:4966



**SHEAR STRESS Continued**

Tilt and Deflections of Tapered Polygonal Towers, Ralph J. Pschunder, ST3:Jun 65:151:4373

TR:131:143

Wind Driven Water Currents, W. Douglas Baines and Douglas J. Knapp, HY2:Mar 65:205:4270

TR:131:788

**SHEAR TESTS**

Analysis of a Shear Wall Supported by a Beam, A. T. Hinkley, ST1:Feb 66:121:4668

Analysis of Suspended Curved Girder, Marcello H. Soto, ST1:Feb 66:21:4662  
 Tractive-Force Distribution in Open Channels, John Asher Replogle and Ven Te Chow, HY2:Mar 66:169:4727

**SHELLS (Structural Forms)**

Analysis of Laminated Shells of Revolution, Stanley B. Dong, EM6:Dec 66:135:5044

Combined Aerodynamic and Structural Design of Light-weight Flight Structures, Robert W. Fraleigh, CE:Aug 65:60

TR:131:505

Compact Solution of Doubly-Curved Shell Equation, Graham H. Powell, EM5:Oct 66:1:4927

Complementary Energy Theorem for Symmetric Shells, Charles Libove, EM6:Dec 64:73:4149

TR:131:623

Congress of the International Association for Shell Structures met in Leningrad, Russia, Sept. 1966, CE:Nov 66:99

Edge Load Solutions for Conical Shells, Jack R. Vinson, EM1:Feb 66:37:4657

Effect of Boundary Conditions on Shell Buckling, Leon R. L. Wang, L. Rodriguez-Agrait, and William A. Little, EM6:Dec 66:101:5035

Finite Element Solution for Axisymmetrical Shells, Egor P. Popov, Joseph Penzien, and Zung-An Lu, EM5:Oct 64:119:4085

TR:131:114

General Theory for Thick Shell Analysis, Alejandro Martínez-Márquez, EM6:Dec 66:185:5048

Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841

Large Plastic Deformation of Pressurized Cylinders, Martin A. Salmon, EM3:Jun 66:33:4854

Membrane Forces and Buckling in Reticulated Shells, Douglas T. Wright, ST1:Feb 65:173:4227

TR:131:279

Nonregular Progression in Strain Hardening Shells, Bertram J. Thörn, Jao-Shiun Kao, and Seng-Lip Lee, EM1:Feb 66:59:4658

Numerical Analysis of Translational Shell Roofs, Arthur W. Hedgren, Jr. and David P. Billington, ST1:Feb 66:223:4679

On the Bending of Spherical Shells, P. Stern and E. Y. W. Tsui, EM3:Jun 66:53:4857  
 Response of a Cylindrical Shell to an Elastic Wave, Michael J. Forrestal, Dronnadula V. Reddy, and George Herrmann, EM3:Jun 65:1:4354

TR:131:52

Strength of Reinforced Concrete Folded Plate Models, Alexander C. Scordelis and Peter V. Grerasimenko, ST1:Feb 66:351:4688

Stresses in Hyperboloids under Edge Loadings, David G. Elms, David P. Billington, and Robert Mark, EM4:Aug 65:89:4441

TR:131:498

Study of Stability in the Hyperbolic Paraboloid, Kenneth M. Leet, EM1:Feb 66:121:4677  
 Two Large Shells of Post-Tensioned Precast Concrete--Oklahoma Arena and Arizona Coliseum, T. Y. Lin and Ben W. Young, CE:Jul 65:56

TR:131:488

Vibration of a Radially Loaded Spherical Shell, Carl F. Long, EM2:Apr 66:235:4798

**SHIPS**

Analogue Procedure for Determination of Virtual Mass, O. C. Zienkiewicz and B. Nath, HY3:Sept 64:69:4042

TR:131:193

**SHOCK**

Dynamic Response of a Floating Rigid-Plastic Box, Rene B. Testa and Hans H. Bleich, EM2:Apr 66:131:4783

Impulsive Loading Theorems for Rigid-Plastic Continua, John B. Martin, EM5:Oct 64:27:4072

TR:131:746

On the Shock Response of Inelastic Beams, Kenneth E. Blanchard and Albert B. Schultz, EM5:Oct 65:27:4500

TR:131:655

Shock Waves in Granular Soil, Robert D. Stoll and Ibrahim A. Ebeido, SM4:Jul 65:107:4406

TR:131:459

Thermal-Shock Effects on a Space Vehicle, Lewis Li-Tang Aug and Donald J. Trent, EM4:Aug 65:1:4425

TR:131:525

Two Degree-of-Freedom Elastoplastic Response to a Step Velocity Pulse, Robert H. Anderson, EM5:Oct 65:191:4524

TR:131:581

**SHORE PROTECTION**

Foreshore Protection, Lower Mississippi River, Rudolf Hertzberg, WW2:May 65:1:4305

TR:131:573

Movable Bed Model for River Structure Design, Howard E. Christian, Warren J. Mellema, and Walter M. Corder, WW3:Aug 66:45:4883

Preliminary Design of Rubble-Mound Structures, Lester A. Tinkham, CE:Aug 66:60

Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, ST1:Jan 66:1:4599

**SHORING**

Tie-Backs in Soil Open Building Area for Unobstructed Deep Excavation, Weldon S. Booth, CE:Sept 66:46

Wyoming--Rock Mechanics Study in Highway Tunnels Determines Design of Support and Lining, Howard B. Dutro, CE:Feb 66:60

**SHORT TAKE-OFF PLANES**

V/STOL Transports and Their Terminal Requirements, Joseph W. Wetmore, AT1:Jan 66: 77:4612

**SIGNS**

Signboard Footings to Resist Wind Loads, Don L. Ivey with Leon Hawkins, CE:Dec 66:34

**SIMULATION**

Digital Simulation of Heat Flow in Soils, Charles Carroll, Hilbert Schenck, Jr., and Wayne Williams, SM4:Jul 66:31:4865

**SLABS**

Deflections of Multiple-Panel Reinforced Concrete Floor Slabs, Mortimer D. Vanderbilt, Mete A. Sozen, and Chester P. Siess, ST4: Aug 65:77:4439

TR:131:769

Ultimate Strength of Reinforced Concrete Flat Slabs, Morris W. Self, ST4:Aug 64:205:4013

TR:131:27

**SLABS (Nonmetallic)**

Test of a Flat Slab Reinforced with Welded Wire Fabric, James O. Jirsa, Mete A. Sozen, and Chester P. Siess, ST3:Jun 66:199:4852

**SLIP FORMS**

Slip-Forming Thick Concrete for the Sacramento Airport, Reinard W. Brandley with W.H. Jervis, CE:Aug 66:58

**SLUDGE**

Drainage Characteristics of Digested Sludge, Jimmie E. Quon and Glenn M. Johnson, SA2: Apr 66:67:4762

Survival of *S. Typhi* in Sewage Oxidation Ponds, Michael G. McGarry and Patrick H. Bouthillier, SA4:Aug 66:33:4878

**SNOW**

Snow Loads for Roofs, Albert E. Anderson, CE:Jul 65:76

TR:131:474

Snowshed Location and Design, Peter A. Schaerer, HW2:Oct 66:21:4923

**SNOWSHEDS**

Snowshed Location and Design, Peter A. Schaerer, HW2:Oct 66:21:4923

**SOIL (Material)**

One-Dimensional Infiltration into Homogeneous Soil, Yu-Si Fok and Vaughn E. Hansen, IR3: Sept 66:35:4912

**SOIL MECHANICS**

Analysis of Clay Deformation As a Rate Process, Richard W. Christensen and Tien Hsing Wu, SM6:Nov 64:125:4147

TR:131:334

Analysis of Consolidation by Rate Process Theory, T. H. Wu, D. Resendiz, and R. J. Neukirchner, SM6:Nov 66:229:4991

Anisotropy and Stress Reorientation in Clay, James M. Duncan and H. Bolton Seed, SM5: Sept 66:21:4903

Approximation for Terzaghi's Bearing Capacity Factors, Raymond J. Krizek, EM2:Mar 65:1: 4247

TR:131:55

ASCE Soil Mechanics and Foundations Division specialty conference on stability of slopes and embankments, Berkeley, Calif., Aug 22-26, CE: Feb 66:48; CE:May 66:79

ASCE Technical Divisions sponsor conference on slopes and embankments, Univ. of Calif., Berkeley, CE:Nov 66:51

Bank Erosion in Soils of the Lower Mississippi Valley, Willard J. Turnbull, Ellis L. Krinitzky, and Frank J. Weaver, SM1:Jan 66:121:4632

Behavior of a Soil Mass Under Dynamic Loading, R. W. Sparrow and A. C. Tory, SM3: May 66:59:4825

Breakwater from No-Cost Fill in Flushing Bay, N.Y., Bogos Torikoglu, CE:July 66:58

Buckling of Soil-Surrounded Tubes, Ulrich Luscher, SM6:Nov 66:211:4990

Characteristics of Soil-Asphalt as a Rate Process, M. Abdel-Hady and Moreland Herrin, HW1:Mar 66:49:4719

Clay Mineralogical Aspects of the Atterberg Limits, H. Bolton Seed, Richard J. Woodward, and Raymond Lundgren, SM4:Jul 64:107:3983

TR:131:285

Clay Strength Under Earthquake Loading Conditions, H. Bolton Seed and Clarence K. Chan, SM2:Mar 66:53:4723

Compressibility of Clay, Gerald A. Leonards and Adolph G. Altschaeffl, SM5:Sep 64:133:4049

TR:131:303

Consolidation of Nonhomogeneous Clay Layers, Robert L. Schiffman and Robert E. Gibson, SM5: Sep 64:1:4043

TR:131:659

Consolidation of Slightly Overconsolidated Soils, Gerald Patrick Raymond, SM5:Sept 66: 1:4893

Consolidation Testing with Back Pressure, John Lowe, III, Philip F. Zaccaro, and Harvey S. Feldman, SM5:Sep 64:69:4058

TR:131:121

Control of Earth and Rockfill for Oroville Dam, Bernard B. Gordon and Robert K. Miller, SM3:May 66:1:4822

Design of a Differential Pore Pressure and Its Time Lag Characteristics, Jagdish Narain and Bhawani Singh, SM5:Sept 66:93:4909

Design of Footing for Exposed Exterior Column, Yin-chow Chang, SM4:Jul 65:77:4401

TR:131:352

Digital Simulation of Heat Flow in Soils, Charles Carroll, Hilbert Schenck, Jr., and Wayne Williams, SM4:Jul 66:31:4865

Dimensionless Parameters for Homogeneous Earth Slopes, James M. Bell, SM5:Sept 66:51: 4904

Dynamic Response of Footings to Vertical Loading, J. Lysmer and F. E. Richart, Jr., SM1:Jan 66:65:4592

## SOIL MECHANICS Continued

Earth Pressures for Bilinear Backfill Surface,  
B. Satyanarayana, SM1:Jan 65:99:4209

TR:131:295

Earthquake-Induced Displacements in Sand  
Embankments, R. E. Goodman and H. Bolton  
Seed, SM2:Mar 66:125:4736

Earthquake Stability of Cohesive Slopes, W. D.  
Liam Finn, SM1:Jan 66:1:4602

Earthquake Stability of Slopes of Cohesionless  
Soils, H. Bolton Seed and Richard E. Goodman,  
SM6:Nov 64:43:4128

TR:131:466

Electric Piezometer for Field Installation,  
Raymond Lundgren, CE:Aug 66:52

Engineering Measurements for Port Allen  
Lock, R. I. Kaufman and W. C. Sherman, Jr.,  
SM5:Sep 64:221:4020

TR:131:29

Factors Effecting Seismic Design of Water  
Towers, B. K. Ramiah and D. S. Rajata Mohana  
Gupta, ST4:Aug 66:13:4886

Field Observations of Structures Damaged by  
Settlement, Donald McKinley, SM5:Sep 64:249:  
4054

TR:131:316

Foundation Clay Shrinkage Caused by Large  
Trees, Mark J. Hammer and Orville B. Thomp-  
son, SM6:Nov 66:1:4956

Fundamental Aspects of the Atterberg Limits,  
H. Bolton Seed, Richard J. Woodward, and Ray-  
mond Lundgren, SM6:Nov 64:75:4140

TR:131:531

Generalized Kelvin-Voigt Used in Soil Dynam-  
ics Study, Bobby O. Hardin and Gordon D.  
Scott, EM1:Feb 66:143:4678

Grouting Manmade Islands--Chesapeake Bay  
Bridge, Byron J. Prugh, CO1:Jan 66:37:4621

In-Situ Strength Characteristics of Soft Clays,  
I. Noorany and H. Bolton Seed, SM2:Mar 65:49:  
4274

TR:131:323

Interaction of Continuous Frames and Soil  
Media, David Morris, ST5:Oct 66:13:4929

Interpretation of the Consolidation Test, Carl  
B. Crawford, SM5:Sept 64:87:4056

TR:131:13

Key Words and Abstracts for American Papers in  
the Proceedings of the 6th International Con-  
ference on Soil Mechanics and Foundations

Engineering: Report by U. S. Natl. Committee  
for the Internatl. Soc. of Soil Mechanics and  
Foundations Engrg., ASCE, Bramlette Mc-  
Clelland, Chmn., SM1:Jan 66:137:4635

Lateral Resistance of Piles in Cohesionless  
Soils, Bengt B. Broms, SM3:May 64:123:3909

TR:131:475

Lateral Resistance of Piles in Cohesive Soils,  
Bengt B. Broms, SM2:Mar 64:27:3825

TR:131:478

Lateral Response of Piles, William R. Spillers  
and Robert D. Stoll, SM6:Nov 64:1:4121

TR:131:231

The Lewis Smith Rockfill Dam, James A.  
Tyson, PO1:Jan 66:81:4633

Lime Reactivity of Illinois, Marshall R.  
Thompson, SM5:Sept 66:67:4907

Liquefaction of Saturated Sands During Cyclic  
Loading, H. Bolton Seed and Kenneth L. Lee,  
SM6:Nov 66:105:4972

Load Transfer for Axially Loaded Piles in  
Clay, Harry M. Coyle and Lymon C. Reese,  
SM2:Mar 66:1:4702

Lunar Launch Complex 39, Victor F. Leabu,  
CE:May 66:37

Lunar Problems in Soil Engineering, Ronald F.  
Scott, SM1:Jan 65:1:4194

TR:131:710

Measuring Instruments for Strutted Excavating,  
Lauritis Bjerrum, T. Cameron Kenney, and B.  
Kjaernsli, SM1:Jan 65:111:4210

TR:131:568

A Method of Earthquake Resistant Design of  
Earth Dams, H. Bolton Seed, SM1:Jan 66:13:  
4616

Methods of Estimating Settlement, T. William  
Lambe, SM5:Sep 64:43:4060

TR:131:65

Model Study of Dynamically Loaded Arch  
Structures, Don R. Denton and William J.  
Flathau, EM3:Jun 66:17:4848

The Nature of Damping in Sands, Bobby O.  
Hardin, SM1:Jan 65:63:4206

TR:131:299

Neutral Pressures in Compacted Cohesive  
Soils, Francisco P. Silva, SM1:Jan 66:105:4624

Permeability of Compacted Clay, James K.  
Mitchell, Don R. Hooper, and Richard G. Camp-  
enella, SM4:Jul 65:41:4392

TR:131:647

Pile and Pier Foundations, Ralph B. Peck,  
SM2:Mar 65:33:4273

TR:131:224

Pile Load Capacity: Estimates and Test Re-  
sults, William S. Housel, SM4:Jul 66:1:4861

Piles in Cohesionless Soil Subject to Oblique  
Pull, Yoshiaki Yoshimi, SM6:Nov 64:11:4124

TR:131:229

Plane Strain Tests on a Saturated Remolded  
Clay, David J. Henkel and Neil H. Wade, SM6:  
Nov 66:67:4970

Pore Pressure and Bearing Capacity of Layered  
Clays, T. Cameron Kenney, SM4:Jul 64:27:3960

TR:131:462

Pore Water Pressures in Unsaturated Soils,  
Roy E. Olsen and Leonard J. Langfelder, SM4:  
Jul 65:127:4409

TR:131:365

Preloading Results in Tank Foundation  
Economies, Louis J. Goodman and Norbert E.  
Faltyn, CO1:May 65:125:4335

TR:131:843

Proceedings of lectures on design and construc-  
tion of earth structures now available, CE:Dec  
66:78

Quality Control of Compacted Earthwork, W. J.  
Turnbull, J. R. Compton, and R. G. Ahlvin,  
SM1:Jan 66:93:4623

Radial Drainage Oedometer for Laminated  
Clays, D. H. Shields and P. W. Rowe, SM1:  
Jan 65:15:4198

TR:131:339

**SOIL MECHANICS Continued**

Remote Conversational Computing in Civil Engineering, S.H. Haeckel and M.D. Sinkoff, CE:Apr 66:39

Dac, Morton B. Lipetz, CE:June 66:79  
Replica Modeling in Soil Dynamics, Peter S. Westine, SM6:Nov 66:169:4980

Revised Bibliography on Chemical Groutings; Third Progress Report of the Committee on Grouting, Soil Mechanics and Foundations Division, ASCE, W.K. Seaman, Chmn., SM6:Nov 66:39:4969

Rock Properties Interpreted from Sonic Velocity Logs, Roderick D. Carroll, SM2:Mar 66:43:4715

Rockfill Structures Subject to Water Flow, Alan K. Parkins, David H. Trollope, and John D. Lawson, SM6:Nov 66:135:4973

Sand Stiffness Under Various Triaxial Stresses, Bobby O. Hardin and William L. Black, SM2:Mar 66:27:4712

Seismic Coefficient in Earth Dam Design, H. Bolton Seed and G.R. Martin, SM3:May 66:25:4824

Self-Recording Soil Penetrometer, Bengt B. Broms and D.E. Broussard, SM1:Jan 65:53:4200

TR:131:311  
Settlement of Buildings on the MIT Campus, Harry M. Horn and T. William Lambe, SM5:Sep 64:181:4038

TR:131:221  
Shallow Foundations, George G. Meyerhof, SM2:Mar 65:21:4271

TR:131:441  
Shear Strength of a Soil After Freezing and Thawing, Bengt B. Broms and Leslie Y.C. Yao, SM4:Jul 64:1:3958

TR:131:375  
Shock-Induced Stress Wave Propagation in Sand, Ernest T. Selig and Eban Vey, SM3:May 65:19:4332

TR:131:125  
Shock Waves in Granular Soil, Robert D. Stoll and Ibrahim A. Ebeido, SM4:Jul 65:107:4406

TR:131:459  
Signboard Footings to Resist Wind Loads, Don L. Ivey with Leon Hawkins, CE:Dec 66:34  
Soil Surface Compaction with a Foam-Type Explosive, L.J. Goodman, A.R. Aidun, and C.S. Grove, Jr., SM1:Jan 65:143:4211

TR:131:534  
Some Swelling Characteristics of Compacted Clays, James V. Pacher and Ping-Chuan Lin, SM3:May 65:1:4316

TR:131:641  
Stability of Slopes in Anisotropic Soils, Kwan Yee Lo, SM4:Jul 65:85:4405

TR:131:518  
State-of-the-Art of Floating Foundations, Hugh Q. Golder, SM2:Mar 65:81:4278

TR:131:327  
Stochastic Model for Predicting Subsidence, Arnold L. Sweet and John L. Bogdanoff, EM2:Apr 65:21:4292

TR:131:59

Strength Characteristics of Desiccated Clays, Geoffrey E. Blight, SM6:Nov 66:19:4966

Strength Variation Along Failure Surfaces in Clay, J.M. Duncan and H. Bolton Seed, SM6:Nov 66:81:4971

Stress-Dilatancy Performance of Feldspar, I.K. Lee, SM2:Mar 66:79:4734

Stress-Strain Relationships in Triaxial and Consolidation Tests, Dalim K. Majumder and Gary G. La France, CE:July 66:68

See also Rock Mechanics  
The Structural Action of Pile Cluster Dolphins, David G. Elms and Werner E. Schmid, WW4:Nov 65:11:4529

TR:131:816  
Study of Dynamic and Static Failure Envelopes, B.B. Schimming, H.J. Haas, and H.C. Saxe, SM2:Mar 66:105:4735

Subsoils and Foundation Design in Richmond, Va. Leo Casagrande, SM5:Sept 66:109:4915

Subsurface Stabilization of Organic Silty Clay by Precompression, Ernest Jonas, SM5:Sep 64:363:4031

TR:131:242  
Texas--Houston Airport, Study in Engineer-Contractor Harmony, H.O. Fischer, CE:Sep 65:32

TR:131:553  
Tolerance of Structures to Settlement, Jacob Feld, SM3:May 63:4336

TR:131:398  
Transient Loading Tests on a Circular Footing, Vincent P. Drnevich and John R. Hall, SM6:Nov 66:153:4979

Tunnel Design in Massive Rocks, Lawrence Adler, SM6:Nov 66:189:4989

Validity of a Stochastic Model for Predicting Subsidence, Arnold L. Sweet, EM6:Dec 65:111:4573

TR:131:783  
Yielding and Locking of Confined Sand, Robert V. Whitman, T. Edmond, and Peter J. Moore, SM4:Jul 64:57:3966

TR:131:197

**SOIL STABILIZATION**

Lime Reactivity of Illinois, Marshall R. Thompson, SM5:Sept 66:67:4907

**SOLID WASTES**

The Challenge of Solid-Waste Research, Ross E. McKinney, SA5:Oct 66:1:4924

First demonstration refuse-to-compost plant for reclaiming municipal garbage and sewage sludge, CE:Aug 66:98

Refuse-reclamation plant for St. Petersburg, Fla., CE:Oct 66:93

**SPACE EXPLORATION**

Apollo-a Trip to the Moon--symposium, (1)  
Vertical Assembly Building--Project Description, Organization and Procedures, William D. Alexander, CE:Jan 65:42

TR:131:11  
Apollo-a Trip to the Moon--symposium, (2)  
Design of the Vertical Assembly Building, Anton Tedesko, CE:Jan 65:45

TR:131:53

**SPACE EXPLORATION Continued**

- Apollo-a Trip to the Moon--symposium, (3)  
 VAB-Design of Foundations, Philip C. Rutledge,  
 CE:Jan 65:50  
   Dsc: E. M. T. Ryder, CE:Apr 65:80  
   TR:131:67  
 Engineering Challenges of Lunar Explora-  
 tion, Daniel L. Lycan, CE:Dec 65:40  
   TR:131:726  
 International conference on space structures,  
 Sep. 21-23, Battersea College of Technology,  
 London, CE:Jan 66:95  
 Lunar Launch Complex 39, Victor F. Leabu,  
 CE:May 66:37  
 Siting of Manned Lunar Launch Facilities,  
 Arthur G. Porcher, AT1:Jan 66:145:4630

**SPECIFICATIONS**

- Better Specifications-A Vital Need (The Young-  
 er Viewpoint) Michael Riddiford, CE:Mar 66:96  
 Changed Conditions Clause in Construction  
 Contracts, Robert F. Borg, CO2:Sep 64:37:4035  
   TR:131:118  
 Designing Specifications--A Challenge, Edward  
 A. Abdun-Nur, CO1:May 65:29:4315  
   TR:131:604  
 An Engineering Firm Says It Can Prepare  
 Specifications in Half the Time CE:Jan 66:56  
 How to Get Good Concrete, Delmar L. Bloem,  
 CE:Mar 66:66  
 Legal Aspects of Quality Control, Robert B.  
 Jarvis, CE:Oct 65:71  
   TR:131:600  
 Poorly Composed Specifications Cost Money,  
 C. Vaughn Rotz, CE:Jan 66:63  
   Dsc, Robert F. Legget, CE:June 66:79  
 Specification Tolerances for Turbine Homol-  
 ogy, Edward J. Groscurth, PO1:Jan 66:55:4625  
 Structural Welding Codes Revised, Arsham  
 Amirikian, CE:July 66:34  
 Trickling Filter Stone Gradation and Place-  
 ment, Ronald F. Wukasch and Don E. Blood-  
 good, SA2:Apr 66:59:4761  
 Verrazano-Narrows Bridge: Design of Super-  
 structure, Milton Brumer, Herbert Rothman,  
 Michael Fiegen, and Benjamin Forsyth, CO2:  
 Mar 66:23:4742

**SPILLWAYS**

- Boundary Layer Development and Spillway  
 Energy Losses, Frank B. Campbell, Robert C.  
 Cox, and Marden B. Boyd, HY3:May 65:149:4331  
   TR:131:872  
 Flow in Culverts and Related Design Philo-  
 sophies, Fred W. Blaisdell, HY2:Mar 66:19:4704  
 Hydraulic Efficiency in Culvert Design, Fred  
 W. Blaisdell, HW1:Mar 66:11:4709  
 Irrational Flow Over Spillways of Finite  
 Height, John J. Cassidy, EM6:Dec 65:155:4591  
   TR:131:866

- Nappe Oscillation, H. Ivan Schwartz, HY6:Nov  
 64:129:4138  
   TR:131:71  
 Spillway Discharge Coefficients for Rock Island  
 Dam, Claud C. Lomax, HY3:May 65:19:4320  
   TR:131:539  
 Straight Drop Spillway Stilling Basin, Charles  
 A. Donnelly and Fred W. Blaisdell, HY3:May 65:  
 101:4328  
   TR:131:732

**SPRINKLERS**

- Rapid Assessment of Sprinkler Performance,  
 R. Culver and R. F. Sinker, IR1:Mar 66:1:4706  
 Relationships Among Sprinkler Uniformity  
 Measures, Jack G. Beale and David T. Howell,  
 IR1:Mar 66:41:4720

**STABILITY**

- Aerodynamic Stability of H Sections, Daniel  
 Dicker, EM2:Apr 66:1:4764  
 Buckling of Shallow Arches, H. L. Schreyer  
 and Ernest F. Masur, EM4:Aug 66:1:4875  
 Dimensionless Parameters for Homogeneous  
 Earth Slopes, James M. Bell, SM5:Sept 66:51:  
 4904  
 Rockfill Structures Subject to Water Flow,  
 Alan K. Parkins, David H. Trollope, and John  
 D. Lawson, SM6:Nov 66:135:4973

**STADIUMS**

- California--Oakland-Alameda County stadium  
 features unique roof design, CE:July 66:88  
 Missouri--St. Louis dedicates Busch Memorial  
 Stadium, CE:May 66:90  
   Corr: Brice R. Smith, CE:July 66:44  
 Texas--Unusual Dome Awaits Baseball  
 Season in Houston, Louis O. Bass, CE:Jan 65:  
 63  
   Dsc: R. S. DiSalvo, CE:Mar 65:64  
   TR:131:47

**STANDARDS**

- Creative Highway Design, Robert W. Sweet,  
 CE:Dec 66:36  
 Environmental Standards of Bayport, Harry  
 E. Bovay, Jr., UP1:May 66:35:4813  
 International practice code for prestressed con-  
 crete recommended, CE:Oct 66:93  
 A Modern Building Code for New York, N.Y.,  
 Thomas C. Kavanagh, with Sidney M. Johnson,  
 CE:Sept 66:73  
 National Symposium on Water Standards, Univ.  
 of Michigan, July 19-22, CE:Sept 66:50  
 New National Bureau of Standards laboratories  
 to be dedicated Nov. 15, CE:Oct 66:89

**STATISTICAL ANALYSIS**

- Airport Accessibility and Detroit Passengers,  
 Rolla Edward Park, AT2:Nov 66:65:4974  
 Designing Specifications--A Challenge, Edward  
 A. Abdun-Nur, CO1:May 65:29:4315  
   TR:131:604  
 Double Summation of Errors in Aerial Triangu-  
 lation, Gordon Gracie, SU2:Sep 65:13:4467  
   TR:131:527

## STATISTICAL ANALYSIS Continued

Hydrographs of Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4710

Optimizing Sampling Intervals in Tidal Estuaries, Charles G. Gunnerson, SA2:Apr 66:103:4799

Processing Streamflow Data: Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F. J. Flynn, Chmn., HY2:Mar 66:145:4725

Quality Control of Compacted Earthwork, W. J. Turnbull, J. R. Compton, and R. G. Ahlvin, SM1:Jan 66:93:4623

Turbulent Mixing Phenomena of Ocean Outfalls, Richard J. Frankel and James D. Cumming, SA2:Apr 66:33:4297

TR:131:728

## STEELS

AISC honors steel bridges opened in 1965, CE:Nov 66:97

AISC promotes steel for high-rise buildings, CE:June 66:98

Dec & corr., William J. LeMessurier, CE:Sept 66:81

American Institute of Steel Construction Cites seven beautiful steel buildings, CE:Sept 66:98

Analysis of Bolted Butt Joints, John W. Fisher and John L. Rumpf, ST5:Oct 65:181:4513

TR:131:738

Analysis of Multicell Box Gates for Dry Docks, Mohamed Ali El-gaaly, ST3:Jun 65:171:4380

TR:131:435

Arecibo Radar-Radar Telescope--Design and Construction, Thomas C. Kavanagh and David H. H. Tung, CO1:May 65:69:4323

TR:131:625

Behavior of Stainless Steel Columns and Beams, Albert L. Johnson and George Winter, ST5:Oct 66:97:4934

Bracing Requirements for Inelastic Steel Beams, Maxwell G. Lay and Theodore V. Galambos, ST2:Apr 66:207:4785

Brittleness in Higher Strength Bolts, Frank L. Gill and Roger M. Hansen, ST1:Feb 66:89:4666

Buckling of Eccentrically Loaded Steel Columns, Seng-Lip Lee and S. C. Anand, ST2:Apr 66:351:4796

Calibration of Alloy Steel Bolts, Richard J. Christopher, Geoffrey L. Kulak, and John W. Fisher, ST2:Apr 66:19:4768

Calibration Tests of A490 High-Strength Bolts, Gordon H. Sterling, Emile W. J. Troup, Eugene Chesson, Jr., and John W. Fisher, ST5:Oct 65:279:4515

TR:131:583

California--Oakland-Alameda County stadium features unique roof design, CE:July 66:88

Canada--Toronto Office-Building Complex Breaks Records, John L. Kellermann, CE:May 65:62

TR:131:368

A Children's Hospital for Poland with Research and Teaching Facilities, Witold Pytowski, CE:Nov 66:64

A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54

Cold-Formed Steel Members for Economy and Easy Assembly, Paul Buker, CE:May 65:64

TR:131:363

Collapse Loads for Circular-Arc Beams, Neil Jackson, ST5:Oct 66:1:4925

Colorado--70-ft. Underpasses of Corrugated Steel Pipe for Broadmoor Hotel, Colorado Springs, Nick Pinello, CE:Nov 65:84

TR:131:638

Comparison of Static and Dynamic Hysteresis, Robert D. Hansen, EM5:Oct 66:87:4949

Continuous-Composite All-Welded Bridges, Martin C. Rissel, Arthur H. Redman and Theodore H. Karasopoulos, CE:Dec 66:42

Criteria for Designing Bearing-Type Bolted Joints, John W. Fisher and Lynn S. Beedle, ST5:Oct 65:129:4511

TR:131:751

Delaware--Delaware Memorial Bridge to have twin span, CE:Jan 66:96

Design Data for High-Yield-Strength Alloy Steel, Geerhard Haaljer, ST4:Aug 66:31:4887

Dynamic Changes of Mode in Rigid-Plastic Structures, Barry Rawlings, EM2:Apr 65:1:4283

TR:131:176

Effect of Large Alternating Strains on Steel Beams, Vitelmo V. Bertero and Egor P. Popov, ST1:Feb 65:1:4217

TR:131:481

Elastic Stresses Around Holes in Wide-Flange Beams, John E. Bower, ST2:Apr 66:85:4773

Expanding a Prestressed Concrete Plant, George Laszlo, CE:Apr 65:42

TR:131:259

Experimental Stresses in Wide Flange Beams with Holes, John E. Bower, ST5:Oct 66:167:4945

Fire Protection of Structural Steel Framing, Roger H. Wildt, CE:Sept 66:70

Flange Local Buckling in Wide-Flange Shapes, Maxwell G. Lay, ST6:Dec 65:95:4554

TR:131:806

Flexural Strength of Steel and Concrete Composite Beams, Roger G. Slutter and George C. Driscoll, ST2:Apr 65:71:4294

TR:131:823

Florida--Liaison Insures Quality Control for Vehicle Assembly Building at Cape Kennedy, Charles I. Orr, CE:Oct 65:56

TR:131:773

Framing Connections for Square Structural Tubing, Richard N. White and Pen Jeng Fang, ST2:Apr 66:175:4782

Grain Size and Loading Effects on Steel, Russell C. Jones and John A. Hribar, EM5:Oct 64:43:4073

TR:131:56

Higher steel prices set by Bethlehem Steel Corporation, CE:Feb 66:90

High Strength Bolted Moment Connections, Richard T. Doudy and William McGuire, ST2:Apr 65:101:4298

TR:131:565

## STEELS Continued

High-Strength Bolts Subjected to Tension and Shear, Eugene Chesson, Jr., Norberto L. Faustino, and William H. Munse, ST5:Oct 65: 155:4512

TR:131:588

Inelastic Buckling of Steel Frames, Le-Wu Lu, ST6:Dec 65:185:4577

TR:131:870

Inelastic Lateral Stability Under a Moment Gradient, Campbell Massey and F. S. Pitman, EM2:Apr 66:101:4779

Inelastic Lateral-Torsional Buckling of Beam Columns, Yuhshi Fukumoto and Theodore V. Galambos, ST2:Apr 66:41:4770

Inelastic Steel Beams Under Uniform Moment, Maxwell G. Lay and Theodore V. Galambos, ST6:Dec 65:67:4566

TR:131:832

Japan--Automated steel mill expanded, CE: Dec 66:82

Large Plastic Deformation of Pressurized Cylinders, Martin A. Salmon, EM3:Jun 66:33: 4854

Loading Effects in Structural Steel Design, Richard N. Wright and William J. Hall, ST5: Oct 64:11:4084

TR:131:195

Maine--Twin spans to carry Interstate 95 over Penobscot River, CE:Dec 66:84

Michigan--Fisher Expressway Bridge under construction, CE:Feb 66:90

Missouri--St. Louis Steel Arch, Symbol of the Spirit of the Pioneers, J.E.N. Jensen, CE:Oct 65:64

TR:131:594

"Moments, Shears and Reactions for Continuous Highway Bridges," revised edition available from American Institute of Steel Construction, CE: Sept 66:101

New method of fabricating suspension bridge cables, CE:Feb 66:91

New York--Allied Chemical Tower dedicated, CD:Feb 66:89

New York--Steel for Madison Square Garden Center, CE:May 66:93

New York--U.S. Customs Court and Federal Office building under construction, CE:Aug 66:96

Oklahoma--Tulsa Exposition Center uses shop-fabricated steel, CE:Apr 66:80

Optimum Design of Constant-Depth Plate Girders, Reza Razani and George G. Goble, ST2: Apr 66:253:4787

Optimum Design of Mixed Steel Composite Girders, George G. Goble and Philip V. DeSantis, ST6:Dec 66:25:5001

Pennsylvania--Giant girder for generating station, CE:May 66:96

The Prestressed Glued Joint for Steel Connections, George Kostro, CE:Apr 65:75

TR:131:294

Quality Controls for Steel Construction, Milton Brumer, CE:Oct 65:76

TR:131:608

Reactor Containment Structures Abroad, Alexis L. Gluckmann, PO2:Apr 66:59:4748

Shakedown Analysis of Some Typical One-story Bents, Egor P. Popov and Eric Becker, ST5: Oct 64:1:4069

TR:131:186

Shear Strength of High-Strength Bolts, James J. Wallaert and John W. Fisher, ST3:Jun 65: 99:4368

TR:131:766

Strength of Round Steel Columns, Theodore V. Galambos, ST1:Feb 65:121:4219

TR:131:257

Studies of the Ductility of Steel Structures, Theodore V. Galambos and Maxwell G. Lay, ST4:Aug 65:125:4444

TR:131:812

Temperature Stresses in Steel Grain-Storage Tanks, Paul Andersen, CE:Jan 66:74

Torsional-Flexural Buckling of Thin-Walled Members, Alexander Chajes and George Winter, ST4:Aug 65:103:4442

TR:131:815

Unpainted Steel for Permanent Structures, R. B. Madison, CE:Feb 66:68

U. S. Steel announces winners in bridge design contest, CE:Oct 66:91

U. S. Steel to build 2 plants in Ohio, CE:Aug 66:96

Yielding of Uniformly Loaded Steel Members, Maxwell G. Lay, ST6:Dec 65:49:4580

TR:131:800

## STIFFNESS

Analysis of Laminated Shells of Revolution, Stanley B. Dong, EM6:Dec 66:135:5044

Bounding Plane Stress Solutions by Finite Elements, R. F. Hooley and P. D. Hibbert, ST1:Feb 66:39:4663

Bracing Requirements for Inelastic Steel Beams, Maxwell G. Lay and Theodore V. Galambos, ST2:Apr 66:207:4785

Compact Solution of Doubly-Curved Shell Equation, Graham H. Powell, EM5:Oct 66:1: 4927

Computer Analysis of Plane and Space Structures, Semih S. Tezcan, ST2:Apr 66:143:4780

Dynamic Behavior of Massive Guy Cables, Alan G. Davenport and George N. Steels, ST2: Apr 65:43:4293

TR:131:511

Dynamic Hinge Concept for Beam Variations, Demeter C. Fertis, ST1:Feb 66:365:4689

III-Conditioned Stiffness Matrices, Jayant M. Shah, ST6:Dec 66:443:5022

Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841

Sand Stiffness Under Various Triaxial Stresses, Bobby O. Hardin and William L. Black, SM2:Mar 66:27:4712

Stability of Plates Using the Finite Element Method, Kanwar K. Kapur and Billy J. Hartz, EM2:Apr 66:177:4790

Yielding of Uniformly Loaded Steel Members, Maxwell G. Lay, ST6:Dec 65:49:4580

TR:131:800

## STILLING BASINS

Flow Over a Dentated Sill in Open Channel, Walter Rand, HY5:Sept 66:135:4913



**STILLING BASINS Continued**

- Straight Drop Spillway Stilling Basin, Charles A. Donnelly and Fred W. Blaisdell, HY3:May 65: 101:4328  
TR:131:732

**ST. LOUIS**

- Design Criteria for Interceptor Sewers for St. Louis, Erwin E. Bloss, SA4:Aug 66:7:4877

**STOCHASTIC PROCESS**

- Stochastic Model for Predicting Subsidence, Arnold L. Sweet and John L. Bogdanoff, EM2: Apr 65:21:4292  
TR:131:59

**STORMS**

- An Engineering Appraisal of Hurricane Betsy, Melvin W. Jackson, CE:Jan 66:37  
Disc, Thomas J. Bowen, CE:May 66:76  
Hurricane Betsy in South Florida, Herbert S. Saffir, CE:Aug 66:49  
Rhode Island--Hurricane barrier to protect Providence, CE:Mar 66:103  
Storm Loss Rates for Regions with Limited Data, David H. Pilgrim, HY2:Mar 66:193:4728  
Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, SU1:Jan 66: 1:4599

**STRAINS**

- Analysis of Laminated Shells of Revolution, Stanley B. Dong, EM6:Dec 66:135:5044  
Behavior of a Soil Mass Under Dynamic Loading, R. W. Sparrow and A. C. Tory, SM3:May 66: 59:4825  
Earthquake Stress Analysis in Earth Dams, Ray W. Clough and Anil K. Chopra, EM2: Apr 66:197:4793  
Large Strain Analysis and Stresses in Linear Materials, August J. Durelli and Alfred P. Mulzet, EM3:Jun 65:65:4367  
TR:131:139  
A Method to Increase the Accuracy of Moire Method, Fu-Pen Chiang, EM1:Feb 65:137:4239  
TR:131:251  
Plane Strain Tests on a Saturated Remolded Clay, David J. Henkel and Neil H. Wade, SM6: Nov 66:67:4970  
Strain-Gradient Effects in Microlayers, F. D. Day and Yechiel Weitsman, EM5:Oct 66:67:4943

**STREAM GAGES**

- Processing Streamflow Data: Task Committee on Processing Streamflow Data, Committee on Surface Water Hydrology, ASCE, F. J. Flynn, Chmn., HY2:Mar 66:145:4725

**STREAMS**

- Application of Radioactive Tracers to Stream Improvements, William A. Cawley and Wyman C. Rutledge, SA1:Feb 66:1:4640  
Bed Forms Due to a Fluid Stream, Harry M. Hill, HY2:Mar 66:127:4724  
BOD and Oxygen Relationships in Streams, William E. Dobbins, SA3:Jun 64:53:3949  
TR:131:225

- Experiments on Small Streams in Alluvium, Peter Ackers, HY4:Jul 64:1:3959  
TR:131:373

- Hydraulic Resistance of Alluvial Streams, Frank Engelund, HY2:Mar 66:315:4739  
Hydrographs of Ephemeral Streams in the Southwest, Kenneth G. Renard and Robert V. Keppel, HY2:Mar 66:33:4710  
Predicting Temperatures in Rivers and Reservoirs, William H. Delay and John Seaders, SA1:Feb 66:115:4675  
Sidestream Intakes for Hydro Power in Scotland, Edgar Burke Wilson and John Alexander Stevenson, PO1:Jan 66:1:4601

**STRENGTH OF MATERIALS**

- Analysis of Bolted Butt Joints, John W. Fisher and John L. Rumpf, ST5:Oct 65:181:4513  
TR:131:738  
Design Data for High-Yield-Strength Alloy Steel, Geerhard Haaijer, ST4:Aug 66:31:4887  
Importance of Strain Hardening in Plastic Design, Alexander P. Hrennikoff, ST4:Aug 65: 23:4424  
TR:131:856

**STRESSES**

- Analysis of Laminated Shells of Revolution, Stanley B. Dong, EM6:Dec 66:135:5044  
Anisotropy and Stress Reorientation in Clay, James M. Duncan and H. Bolton Seed, SM5: Sept 66:21:4903  
Behavior of a Soil Mass Under Dynamic Loading, R. W. Sparrow and A. C. Tory, SM3: May 66:59:4825  
Bounding Plane Stress Solutions by Finite Elements, R. F. Hooley and P. D. Hibbert, ST1: Feb 66:39:4663  
Buckling of Aluminum Columns, Plates, and Beams, John W. Clark and Richard L. Rolf, ST3:Jun 66:17:4838  
Clay Strength Under Earthquake Loading Conditions, H. Bolton Seed and Clarence K. Chan, SM2:Mar 66:53:4723  
Computer Analysis of the F-111 Wing Assembly, Joseph Antebi, Edwin C. Rossow, Indravadan K. Shah, and Jayant M. Shah, ST6: Dec 66:405:5020  
Computer Design of 100-Story John Hancock Center, Fazlur R. Khan, Srinivasa H. Iyengar, and Joseph P. Colaco, ST6:Dec 66:55:5003  
Elastic Stress Field in a Plate with a Skew Hole, F. Ellyin, N. C. Lind, and A. N. Sherbourne, EM1:Feb 66:1:4651  
Elastic Stresses Around Holes in Wide-Flange Beams, John E. Bower, ST2:Apr 66:85:4773  
Elastostatic Problem of a Perforated Square Plate, Alois L. Schlack and Robert W. Little, EM5:Oct 64:171:4089  
TR:131:51  
Exact Solution of the Biaxial Bending Equations, Charles G. Culver, ST2:Apr 66:63:4772  
Experimental Stresses in Wide-Flange Beams with Holes, John E. Bower, ST5:Oct 66:167:4945

**STRESSES Continued**

- Initial Imperfections in Biaxial Bending, Charles G. Culver, ST3:Jun 66:119:4846
- Limit Analysis of Notched Tension Specimens, Walid H. Rimawi, Seng-Lip Lee, and T. Mura, EM1:Feb 66:11:4636
- Membrane Forces and Buckling in Reticulated Shells, Douglas T. Wright, ST1:Feb 65:173:4227  
TR:131:279
- Optimum Design--Minimum Weight Versus Fully Stressed, Thomas P. Kicher, ST6:Dec 66:265:5014
- Plane Strain Tests on a Saturated Remolded Clay, David J. Henkel and Neil H. Wade, SM6:Nov 66:67:4970
- Pore Water Pressures in Unsaturated Soils, Roy E. Olsen and Leonard J. Langfelder, SM4:Jul 65:127:4409  
TR:131:365
- Reactor Containment Structures Abroad, Alexis L. Gluckmann, PO2:Apr 66:59:4748
- Sand Stiffness Under Various Triaxial Stresses, Bobby O. Hardin and William L. Black, SM2:Mar 66:27:4712
- Shock-Induced Stress Wave Propagation in Sand, Ernest T. Selig and Eben Vey, SM3:May 65:19:4332  
TR:131:125
- Statistical Design of Axisymmetric Plates, George J. Megarefs, EM6:Dec 66:79:5030
- Strength Variation Along Failure Surfaces in Clay, J. M. Duncan and H. Bolton Seed, SM6:Nov 66:81:4971
- Stress Analysis of Cantilevered Bridge Slabs, Alexander Coull, ST2:Apr 66:1:4765
- Stresses in Hyperboloids under Edge Loadings, David G. Elms, David P. Billington, and Robert Mark EM4:Aug 65:89:4441  
TR:131:498
- Temperature Stresses in Steel Grain-Storage Tanks, Paul Andersen, CE:Jan 66:74
- Viscoelastic Stresses for Moving Temperature Fields, EM2:Apr 66:25:4766
- Welded Connections for Space Frame Joints, Robert H. Goldsmith, ST5:Oct 64:63:4100  
TR:131:712
- Yielding and Locking of Confined Sand, SM4:Jul 64:57:3966  
TR:131:197

**STRUCTURAL ANALYSIS**

- Research Needs in Structural Engineering for the Decade 1966-1975; Progress Report by the Committee on Research of the Structural Division, Structural Division, ASCE, John D. Haltiwanger, Chmn., ST5:Oct 66:287:4946

**STRUCTURAL DESIGN**

- Artificial Intelligence and Structural Design, William R. Spillers, ST6:Dec 66:491:5025
- Structural Design of Large Space Chambers, Lewis H. Blakey, AT2:Nov 66:29:4962

**STRUCTURAL ENGINEERING**

- A440 Steel Joints Connected by A490 Bolts, Gordon H. Sterling and John W. Fisher, ST3:Jun 66:101:4845

- Alaska--Vertical Forces in Earthquake of March 1964, Harvey P. Pittelko, CE:Jan 65:56  
Disc: Harold C. Smith, CE:Mar 65:52  
TR:131:49
- Aluminum Columns--Have Capacities of Heat-Treated, Welded Members Been Underestimated?, Herman E. Reitman, CE:June 66:75
- Analysis Comparisons for Single Curved Shell Roofs, Paul E. Mast, ST2:Apr 65:1:4282  
TR:131:790
- Analysis of a Shear Wall Supported by a Beam, A. T. Hinkley, ST1:Feb 66:121:4668
- Analysis of Bolted Butt Joints, John W. Fisher and John L. Raumpf, ST5:Oct 65:181:4513  
TR:131:738
- Analysis of High Guyed Towers, Ezra G. Odley, ST1:Feb 66:169:4671
- Analysis of Multicell Box Gates for Dry Docks, Mohamed Ali El-gaaly, ST3:Jun 65:171:4380  
TR:131:435
- Analysis of Nonprismatic Continuous Structures, Thomas D. Y. Fok and Thomas F. Mosure, ST1:Feb 66:1:4647
- The Analysis of Structural Safety, Alfred M. Freudenthal, Jewell M. Garretts, and Masanobu Shinozuka, ST1:Feb 66:267:4682
- Analysis of Suspended Curved Girder, Marcello H. Soto, ST1:Feb 66:21:4662
- Analysis of Truss-Plate Structures, James W. Gillespie, ST2:Apr 65:129:4300  
TR:131:551
- Analysis of Vierendeel Truss with Inclined Chords, Hsien-San Tsang, ST5:Oct 66:147:4942
- Anchor Zone Stresses in Prestressed Concrete Beams, Pijushkanti Som and Kalyanmay Ghosh, ST4:Aug 64:49:3996  
TR:131:94
- Artificial Intelligence and Structural Design, William R. Spillers, ST6:Dec 66:491:5025
- Asbestos-Cement Pipe for a Tower, Yen H. Dong, CE:Oct 66:46
- ASCE and Structural Engineers Association of Southern California publish paper on Earthquake Safety and Structural Engineering, CE:May 66:46
- ASCE Structural Division's Fourth National Conference on Electronic Computation, Univ. of Calif., Sept. 7-9, CE:Aug 66:41
- Aseismic Design of Multistory Systems, E. F. Kokinopoulos, ST3:Jun 66:77:4842
- Automated Optimum Cost Building Design, Louis A. Hill, Jr., ST6:Dec 66:247:5013
- AUTOSPEC: Automated Preparation of Specifications, G. Neil Harper, ST6:Dec 66:45:5002
- Behavior of Diaphragm-Braced Columns and Beams, George Pincus and Gordon P. Fisher, ST2:Apr 66:323:4792
- Behavior of Fasteners and Plates with Holes, John W. Fisher, ST6:Dec 65:265:4587  
TR:131:854
- Behavior of Reinforced Concrete Columns with Sidesway, Edward O. Pfrrang, ST3:Jun 66:225:4853
- Behavior of Restrained Reinforced Concrete Columns, Edward O. Pfrrang and Chester P. Siess, ST5:Oct 64:113:4111  
TR:131:341
- Behavior of Square Inflated Frames, Bryan Stafford Smith, ST1:Feb 66:381:4690

**STRUCTURAL ENGINEERING Continued**

- Behavior of Stainless Steel Columns and Beams, Albert L. Johnson and George Winter, ST5:Oct 66:97:4934
- Bolted Bridge Behavior During Erection and Service, Eugene Chesson, Jr., ST3:Jun 65:57:4365
- TR:131:120
- Bounding Plane Stress Solutions by Finite Elements, R. F. Hooley and P. D. Hibbert, ST1:Feb 66:39:4663
- Bracing Requirements for Inelastic Steel Beams, Maxwell G. Lay and Theodore V. Galambos, ST2:Apr 66:207:4785
- Brick Bearing Walls for Multi-Story Structures, Robert D. Dikkers with John C. Grogan, CE:Sept 66:76
- Brittleness in Higher Strength Bolts, Frank L. Gill and Roger M. Hansen, ST1:Feb 66:89:4666
- Buckling of Eccentrically Loaded Steel Columns, Seng-Lip Lee and S. C. Anand, ST2:Apr 66:351:4796
- Buckling of Three-Legged Columns with Batten Bracing, Jorge Y. Tamayo and Morris Ojalvo, ST1:Feb 65:141:4224
- TR:131:149
- Building Design Using Linear Programming, Moshe F. Rubinstein and John Karagozian, ST6:Dec 66:223:5012
- Cable-Supported Warehouse Roof Provides Large Open Area, Fred Fischer, Jr., CE:Sept 66:43
- Disc, Walter H. Wheeler, CE:Dec 66:61
- Calibration of Alloy Steel Bolts, Richard J. Christopher, Geoffrey L. Kulak, and John W. Fisher, ST2:Apr 66:19:4768
- Calibration Test of A490 High-Strength Bolts, Gordon H. Sterling, Emile W. J. Troup, Eugene Chesson, Jr., and John W. Fisher, ST5:Oct 65:279:4515
- TR:131:583
- Cast-in-Place Concrete Connects Precast Members, S. A. Erech, CE:Mar 66:64
- Ceramics as Structural Materials, Francis R. Shanley and William J. Knapp, ST4:Aug 65:47:4429
- TR:131:403
- A Children's Hospital for Poland with Research and Teaching Facilities, Witold Pytowski, CE:Nov 66:64
- A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54
- Cold-Formed Steel Members for Economy and Easy Assembly, Paul Buker, CE:May 65:64
- TR:131:363
- Collapse Loads for Circular-Arc Beams, Neil Jackson, ST5:Oct 66:1:4925
- Combined Aerodynamic and Structural Design of Light-weight Flight Structures, Robert W. Fralich, CE:Aug 65:60
- TR:131:505
- Comparison of Static and Dynamic Hysteresis, Robert D. Hansen, EM5:Oct 66:87:4949
- Computer-Aided Bridge Design, Gerald M. Sturman, Leland C. Albertson, Jr., C. Allin Cornell, and Jose M. Roesset, ST6:Dec 66:141:5007

- Computer Analysis of Plane and Space Structures, Semih S. Tezcan, ST2:Apr 66:143:4780
- Computer Analysis of the F-111 Wing Assembly, Joseph Antebl, Edwin C. Rossow, Indravadan K. Shah, and Jayant M. Shah, ST6:Dec 66:405:5020
- Computer Analysis of Towers Verified by Testing, Charles F. Beck and Max Zar, ST6:Dec 66:361:5018
- Computer Analysis of Underground Frames, Albert M. Lount and W. R. Smyth, ST6:Dec 66:93:5005
- Computer Design of a Tower and Cable System, R. A. Williamson, H. F. Stevenson, and P. W. Van der Pas, ST6:Dec 66:341:5017
- Computer Design of 100-Story John Hancock Center, Fazlur R. Khan, Srinivasa H. Iyengar, and Joseph P. Colaco, ST6:Dec 66:55:5003
- Computer System Designed for Teaching and Structural Research at MIT, William Little and Kenneth Reinschmidt, CE:Aug 65:71
- TR:131:542
- Computers and the Design of The World Trade Center, Richard E. Taylor, ST6:Dec 66:75:5004
- Conjugate Analogy of Space Structures, Zdeněk P. Bazant, ST3:Jun 66:137:4849
- Connections for Precast Members Can Be Trouble-Free, Paul Gordon, CE:July 66:62
- Creep in Grouted Sleeve Splices of Reinforcing Bars, Don Ivey, CE:Aug 66:54
- Criteria for Designing Bearing-Type Bolted Joints, John W. Fisher and Lynn S. Beedle, ST5:Oct 65:129:4511
- TR:131:751
- Crushable Materials for Structural Blast Shields, Martin A. Salmon and Carl J. Costantino, ST3:Jun 65:229:4384
- TR:131:191
- DATALINK: A Structural Laboratory On-Line Language, Kenneth F. Reinschmidt, ST6:Dec 66:213:5011
- Deflections of Multiple-Panel Reinforced Concrete Floor Slabs, Mortimer D. Vanderbilt, Mete A. Sozen, and Chester P. Siess, ST4:Aug 65:77:4439
- TR:131:769
- Design Data for High-Yield-Strength Alloy Steel, Geerhard Haaijer, ST4:Aug 66:31:4887
- Design of Aluminum Tubular Members, John W. Clark and Richard L. Rolf, ST6:Dec 64:259:4184
- TR:131:271
- Design of Base Plates and Anchor Bolts with Simple Assumptions, Herman Soifer, CE:Apr 66:63
- Design of Guyed Towers by Interaction Diagrams, Haaren A. Miklofsky and Martin G. Abegg, ST1:Feb 66:245:4680
- Designing Wood Structures for Durability, Elton F. Jones, CE:July 66:44
- Disc, Robert E. Mills, Sr., CE:Nov 66:77
- Details that Cause Failure in Timber Truss Design, Paul Gordon, CE:Oct 65:74
- TR:131:667

## STRUCTURAL ENGINEERING Continued

Direct Design of Framed Structures, John F. Brothie, ST6:Dec 64:243:4182

TR:131:37

Dynamic Behavior of Massive Guy Cables, Alan G. Davenport and George N. Steels, ST2:Apr 65:43:4293

TR:131:511

Dynamic Hinge Concept for Beam Variations, Demeter C. Fertis, ST1:Feb 66:365:4689

Dynamic Structural Analysis with Short Time History, George L. Henderson, ST3:Jun 65:1:4352

TR:131:253

Earthquake Damping in Building Frames, Charles Mackintosh, CE:June 66:70

Earthquake Response of a Yielding Structure, Paul C. Jennings, EM4:Aug 65:41:4435

TR:131:453

Earthquake Response of Systems with Bilinear Hysteresis, Spiro S. Thomaides, ST4:Aug 64:123:4009

TR:131:26

Eccentrically Loaded Trapezoidal or Round Footings, Alfred Zweig, ST1:Feb 66:161:4670

Effect of Large Alternating Strains on Steel Beams, Vitelmo V. Bertero and Egor P. Popov, ST:Feb 65:1:4217

TR:131:481

Elastic Stresses Around Holes in Wide-Flange Beams, John E. Bower, ST2:Apr 66:85:4773

Electronic Computation: Past, Present, Potential, Elwyn H. King, ST6:Dec 66:3:5000

An Engineering Appraisal of Hurricane Betsy, Melvin W. Jackson, CE:Jan 66:37

Dsc, Thomas J. Bowen, CE:May 66:76

An Engineering Firm Says It Can Prepare Specifications in Half the Time, CE:Jan 66:56

Environment for Problem-Oriented Languages, Edward L. Murphee, Jr., John W. Melin, and Steven J. Fenves, ST6:Dec 66:167:5008

Exact Solution of the Biaxial Bending Equations, Charles G. Culver, ST2:Apr 66:63:4772

Experimental Analysis of Continuous Folded Plates, Fred W. Beaufait and George A. Gray, ST1:Feb 66:11:4661

Experimental Rotation of Steel Beam-Columns, Giuliano Augusti, ST6:Dec 64:171:4175

TR:131:291

Experimental Stresses in Wide Flange Beams with Holes, John E. Bower, ST5:Oct 66:167:4945

Face-Wrinkling Mode of Buckling of Sandwich Panels, Billy J. Harris and W.C. Crisman, EM3:Jun 65:93:4370

TR:131:575

Factors Effecting Seismic Design of Water Towers, B.K. Ramlah and D.S. Rajata Mohana Gupta, ST4:Aug 66:13:4886

Fiberglass-Reinforced Plastics as Materials for Construction, Richard E. Chambers, CE:June 66:62

Finite Beams on Elastic Foundations, Constanancio Miranda and Keshavan Nair, ST2:Apr 66:13:4778

Finite Difference Accuracy in Structural Analysis, Nancy Jane Cyrus and Robert E. Fulton, ST6:Dec 66:459:5023

Flange Local Buckling in Wide-Flange Shapes, Maxwell G. Lay, ST6:Dec 65:95:4554

TR:131:806

Flexibility of Axially-Loaded Nonuniform Members, Shou-ling Wang, ST2:Apr 66:195:4784

Flexural Analysis of Coplanar Frames, Frederick P. Wiesinger, ST1:Feb 66:131:4669

Flexural Strength of Steel and Concrete Composite Beams, Roger G. Slutter and George C. Driscoll, ST2:Apr 65:71:4294

TR:131:823

Florida--Criteria for Construction in Creating Another Cape Kennedy Colossus, George H. Kirkland, CE:Oct 65:59

TR:131:694

Frame Instability and Strain Hardening in Plastic Theory, J. Michael Davies, ST3:Jun 66:1:4836

Frames of Solid Bars of Varying Cross Sections, Edward J. Krynicki and Zbigniew E. Mazurkiewicz, ST4:Aug 64:145:4010

TR:131:716

Framing Connections for Square Structural Tubing, Richard N. White and Pen Jeng Fang, ST2:Apr 66:175:4782

Fully-Stressed Design for Alternative Loads, Dhanjoo N. Ghista, ST5:Oct 66:237:4952

Geometry of Suspended Cloth Roofs, Avinadav Slev, ST6:Dec 65:251:4585

TR:131:859

Guide to Development and Use of Electronic Computer Programs: Computers and Programming, Charles L. Miller and Steven J. Fenves, ST6:Dec 64:7:4152

TR:131:3

Guide to Development and Use of Electronic Computer Programs: Introduction, Steven J. Fenves, ST6:Dec 64:1:4151

TR:131:261

Guide to Development and Use of Electronic Computer Programs: Program Planning, Steven J. Fenves, ST6:Dec 64:19:4153

TR:131:15

Heuristic Games for Structural Design, Tung Au, ST6:Dec 66:499:5026

High Strength Bolted Moment Connections, Richard T. Douty and William McGuire, ST2:Apr 65:101:4298

TR:131:565

High-Strength Bolts Subjected to Tension and Shear, Eugene Chesson, Jr., Norberto L. Faustino, and William H. Munse, ST5:Oct 65:155:4512

TR:131:588

Hurricane-Resistant Plywood Construction, J.M. Carney, CE:June 66:57

111-Conditioned Stiffness Matrices, Jayant M. Shah, ST6:Dec 66:443:5022

Importance of Strain Hardening in Plastic Design, Alexander P. Hrennikoff, ST4:Aug 65:23:4424

TR:131:856

Inelastic Buckling of Steel Frames, Le-Wu Lu, ST6:Dec 65:185:4577

TR:131:870

## STRUCTURAL ENGINEERING Continued

Inelastic Lateral-Torsional Buckling of Beam Columns, Yuhshi Fukumoto and Theodore V. Galambos, ST2:Apr 66:41:4770

Inelastic Steel Beams Under Uniform Moment, Maxwell G. Lay and Theodore V. Galambos, ST6:Dec 65:87:4566

TR:131:832

Influence Functions for Beams on Elastic Foundations, Alexander Dodge, ST4:Aug 64: 63:4002

TR:131:102

Influence Lines for Beams on Elastic Foundations, K. T. Sundara Raja Iyengar and S. Anantharamu, ST3:Jun 65:45:4359

TR:131:643

Initial Imperfections in Biaxial Bending, Charles G. Culver, ST3:Jun 66:119:4846

Interaction of Continuous Frames and Soil Media, David Morris, ST5:Oct 66:13:4929

Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4841

Interaction of Shear Walls and Frames, Fazlur R. Khan and John A. Sbarounis, ST3: Jun 64:285:3957

TR:131:247

International conference on space structures, Sept. 21-23, Battersea College of Technology, London, CE:Jan 66:95

Iterative Design and Structural Optimization, Kenneth F. Reinschmidt, C. Allin Cornell, and John F. Brtochie, ST6:Dec 66:281:5015

Large Radar Shield Fabricated at Ground Level, Paul Stetson, CE:June 66:42

Editor's Corr., CE:Aug 66:75

Limit Design by Successive Moment Distribution, Carl Berwanger, ST1:Feb 66:405:4691

Limit Design of Continuous Reinforced Concrete Crane Girders, M. Z. Cohn, ST3:Jun 66:161:4850

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Elgator, CE: Sept 66:62

Loading Effects in Structural Steel Design, Richard N. Wright and William J. Hall, ST5: Oct 64:11:4084

TR:131:195

Loads on Vertical Pile Groups, Heinz G. Juhl, ST2:Apr 66:103:4774

Local Instability in Plates and Channel Struts, A. C. Walker, ST3:Jun 66:39:4839

Long Trusses Provide Adjustable Space, Harry P. Vankerhoff, CE:July 66:67

Dsc, Hamilton V. Bowser, CE:Nov 66:78; author's reply, CE:Nov 66:78

Longitudinal Stiffeners for Compression Members, Maurice L. Sharp, ST5:Oct 66:187:4948

Lunar Launch Complex 39, Victor F. Leabu, CE:May 66:37

Masonry Walls on Continuous Beams, Saky Rosenhaupt and Yehuda Sakal, ST1:Feb 65:155: 4226

TR:131:504

Membrane Forces and Buckling in Reticulated Shells, Douglas T. Wright, ST1:Feb 65:173:4227

TR:131:279

Misalignment in Bolted Joints, Desi D. Vasarhelyi and William N. Chang, ST4:Aug 65:1:4422

TR:131:460

Missouri--Arc Welding Speeds Construction of Springfield Office Building, Rudolph F. Fischl and Georg Klatte, CE:Feb 65:60

TR:131:133

The Mobile Concept in Launch Facilities, Augustus M. Allen, AT2:Nov 66:3:4960

Mode Approximations for Impulsively-Loaded Rigid-Plastic Structures, J. B. Martin and Paul S. Symonds, EM5:Oct 66:43:4938

Multiple Folded Plates, Kuang-Han Chu and S. G. Pinjarkar, ST2:Apr 66:297:4791

New York's Tallest Concrete-Frame Apartment Building--Design and Construction, William E. November, with Robert Rosenwasser, CE:Sept 66:66

Corr., B. R. Wellek, CE:Nov 66:78

Nonlinear Solution for Folded Plate Structures, Larry E. Farmer and John E. Breen, ST2:Apr 66:229:4786

Numerical Analysis of Translational Shell Roofs, Arthur W. Hedgren, Jr. and David P. Billington, ST1:Feb 66:223:4679

On Composite Beams, William R. Spillers, ST4:Aug 65:17:4423

TR:131:836

Operational Method for Continuous Beams, Benno Suke Tanimoto, ST6:Dec 64:213:4179

TR:131:423

Operational Method for Pin-Jointed Trusses, Benno Suke Tanimoto, ST3:Jun 66:179:4851

Optimum Design--Minimum Weight Versus Fully Stressed, Thomas P. Kicher, ST6:Dec 66: 265:5014

Optimum Design of Constant-Depth Plate Girders, Reza Razani and George G. Goble, ST2: Apr 66:253:4787

Optimum Design of Mixed Steel Composite Girders, George G. Goble and Philip V. DeSantis, ST6:Dec 66:25:5001

Optimum Frameworks under Single Load System, Dhanjoo N. Ghista, ST5:Oct 66:261: 4953

Optimum Structural Design Using Linear Programming, Fred Moses, ST6:Dec 64:89: 4163

TR:131:171

Optimum Synthesis of Prestressed Structures, George I. N. Rozvany, ST6:Dec 64:189:4178

TR:131:157

Plastic Analysis and Design of Non-Prismatic Members, Bruce G. Rogers and William H. Munse, Jr., ST5:Oct 65:299:4519

TR:131:366

Plastic Behavior of Tubular Beam Columns, Timothy J. Dwyer and Theodore V. Galambos, ST4:Aug 65:153:4446

TR:131:537

Plastic Hinging in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5:Oct 66:45: 4931

POST: Problem-Oriented Subroutine Translator, John W. Melin, ST6:Dec 66:179:5009

Predicting Structural Behavior Analytically, Edward O. Pfrang and Chester P. Siess, ST5: Oct 64:99:4110

TR:131:289

## STRUCTURAL ENGINEERING Continued

Probabilistic Design to Resist Earthquakes, Emilio Rosenbluth, EM5:Oct 64:189:4090

TR:131:112

"Professional Practice of Structural Engineering of Buildings" (supplement to ASCE Manual 45) available, CE:Mar 66:94

Putting a Movable Bridge Span Back in Swing, Remy P. Papp, CE:July 66:36

Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units; Progress Report by the Task Committee on Precast Concrete Design and Construction, Structural Division, ASCE, P. H. Kaar, Chmn., ST5:Oct 66: 119:4935

Reinforcing for a Rectangular Opening in a Plate, Robert R. Snell and Marion B. Scott, ST4: Aug 65:169:4451

TR:131:463

Remote Conversational Computing in Civil Engineering, S. H. Haackel and M. D. Sinkoff, CE:Apr 66:39

Dsc, Morton B. Lipetz, CE:June 66:79

Repeated and Reversed Loading in Reinforced Concrete, Ned H. Burns and Chester P. Siess, ST5:Oct 66:65:4932

Research in Soil Structure Interaction, William J. Flathau, ST4:Aug 65:35:4427

TR:131:502

Research Needs in Structural Engineering for the Decade 1966-1975; Progress Report by the Committee on Research of the Structural Division, Structural Division, ASCE, John D. Halkiwanger, Chmn., ST5:Oct 66:287:4946

Rotational Capacity of Reinforced Concrete Beams, W. Gene Corley, ST5:Oct 66:121:4939  
Seismic Study of Arch Dams, J. Laginha Serafim and J. Oliveira Pedro, ST2:Apr 65:15: 4284

TR:131:590

Selective Inversion of Stiffness Matrices, James L. Tocher, ST1:Feb 66:75:4665

Shear Effects in Design of Guyed Towers, Robert A. Williamson and M. N. Margolin, ST5:Oct 66:213:4951

Shear Strength of High-Strength Bolts, James J. Wallaert and John W. Fisher, ST3:Jun 65:99: 4368

TR:131:766

Some Improvements on Proposed Eigen-Matrix Method, Benno Suke Tanimoto, ST1: Feb 66:101:4667

Steel Fabrication Drawings by Computer, Alfred H. Palmer and Herbert T. Blomquist, CE:Feb 65:50

Dsc, Henry G. Hurd, CE:May 65:74, reply by author, May 65:74

TR:131:116

St. Louis' Poplar Street Bridge--Design and Fabrication, E. J. Shields, CE:Feb 66:52

Strength of Reinforced Concrete Folded Plate Models, Alexander C. Scordelis and Peter V. Gerosimenko, ST1:Feb 66:351:4688

Strength of Round Steel Columns, Theodore V. Galambos, ST1:Feb 65:121:4219

TR:131:257

Stress Analysis of Cantilevered Bridge Slabs, Alexander Coull, ST2:Apr 66:1:4765

Stresses in a Uniformly Loaded Two-Layer Circular Plate, Martin A. Goldberg, Malcolm Newman, and Marvin J. Forray, EM3:Jun 65: 13:4356

TR:131:652

Structural Analysis by Networks, Matrices, and Computers, Steven J. Fenves, ST1:Feb 66: 199:4674

Structural Analysis of Suspension Bridges, Trevor J. Poskitt, ST1:Feb 66:49:4664

Structural Analysis of the Haystack Antenna, William R. Fanning, ST1:Feb 66:431:4698

Structural Behavior in a Gypsum Roof-Deck System, John E. Johnson and Albert D. M. Lewis, ST2:Apr 66:283:4789

Structural division conference on electronic computation held in Los Angeles, Sept 7-9, CE: Nov 66:84

Structural Maintenance--The Third Element in the Structural Engineer's Professional Package, T. C. Kavanagh and S. M. Johnson, CE: May 65:52

TR:131:309

Structural Optimization by Nonlinear Programming, Daniel M. Brown and Alfredo H.-S. Ang, ST6:Dec 66:319:5016

Structural Welding Codes Revised, Arsham Amirikian, CE:July 66:34

STRUDL--A Computer System for Structural Design, Robert D. Logcher and Gerald M. Struman, ST6:Dec 66:191:5010

Studies of the Ductility of Steel Structures, Theodore V. Galambos and Maxwell G. Lay, ST4:Aug 65:125:4444

TR:131:812

A Study of Mechanisms with Application to Frames, Jacques E. Benveniste, EM1:Feb 65: 19:4222

TR:131:446

Synthesis of a Space Truss Based on Dynamic Criteria, J. William Young, Jr. and Henry N. Christiansen, ST6:Dec 66:425:5021

Tabular Decision Logic for Structural Design, Steven J. Fenves, ST6:Dec 66:473:5024

Tagus River Bridge--for Highway and Railway Traffic, R. M. Boynton, CE:Feb 66:34

Teaching Engineering Attitude to Students, Malcolm S. Gregory, PP1:Jan 65:1:4189

TR:131:361

Test of a Flat Slab Reinforced with Welded Wire Fabric, James O. Jirsa, Mete A. Sozen, and Chester P. Siess, ST3:Jun 66:199:4852

Tests of Partially Prestressed Concrete Girders, Donald D. Magura and Elvind Hognestad, ST1:Feb 66:327:4685

Theoretical Analysis of Suspension Bridges, Saafan A. Saafan, ST4:Aug 66:1:4885

Thermal Stresses due to Unequal Thermal Coefficients of Concrete and Reinforcing Steel, T. A. Holm, CE:Feb 65:63

TR:131:144

Three-Dimensional Analysis of Tier Buildings, William Weaver, Jr. and Mark F. Nelson, ST6: Dec 66:385:5019



**STRUCTURAL ENGINEERING Continued**

Tilt and Deflections of Tapered Polygonal Towers, Ralph J. Pschunder, ST3:Jun 65:151:4373

TR:131:143

Torsion of Structural Shapes, I. A. El Darwish and Bruce G. Johnston, ST1:Feb 65:203:4228

TR:131:428

Torsional-Flexural Buckling of Thin-Walled Members, Alexander Chajes and George Winter, ST4:Aug 65:103:4442

TR:131:815

Two Different Approaches to Subway Design, Winfield O. Salter, ST6:Dec 66:117:5006

Ultimate Load Capacity of Arch Dams, Jorge I. Bustamante and Emilio Rosenbluth, EM4:Aug 66:21:4879

Ultimate Strength of Reinforced Concrete Flat Slabs, Morris W. Self, ST4:Aug 64:204:4013

TR:131:27

Vibration of a Viscoelastic Timoshenko Beam, H. H. Pan, EM2:Apr 66:213:4794

Vibration of Towers as Related to Wind Pulses, Arthur N. L. Chiu and Donald A. Sawyer, ST5:Oct 64:137:4114

TR:131:108

Vibration Tests of a Nine-Story Steel Frame Building, N. Norby Nielson, EM1:Feb 66:81:4660

Washington--Legacy of Galloping Gertie (Tacoma Narrows Bridge), Robert Goller, CE:Oct 65:50

TR:131:704

Welded Connections for Space Frame Joints, Robert H. Goldsmith, ST5:Oct 64:63:4100

TR:131:712

Welded Steel Girders Selected for a Major Bridge after a Comparative Study, E. A. Stratton with K. K. Chen, CE:Feb 66:56

Wind Loads on Basic Dome Shapes, F. J. Maher, ST3:Jun 65:219:4383

TR:131:103

Wind Loads on Dome-Cylinder and Dome-Cone Shapes, F. J. Maher, ST5:Oct 66:79:4933

Wood Beams Prestressed with Bonded Tension Elements, John Peterson, ST1:Feb 65:103:4218

TR:131:379

Yielding of Uniformly Loaded Steel Members, Maxwell G. Lay, ST6:Dec 65:49:4580

TR:131:800

**STRUTS**

Buckling Loads for Elastically Supported Struts, A. Raymond Toakley, EM3:Jun 65:205:4379

TR:131:168

**SUBSIDENCE**

Differential Settlement at Selfridge Air Force Base, George B. Wallace and William C. Otto, SM5:Sep 64:197:4047

TR:131:70

Foundation Clay Shrinkage Caused by Large Trees, Mark J. Hammer and Orville B. Thompson, SM6:Nov 66:1:4956

Validity of a Stochastic Model for Predicting Subsidence, Arnold L. Sweet, EM6:Dec 65:111:4573

TR:131:783

**SUBSURFACE STRUCTURES**

Avoiding Utility Interference Underground, Hertel Missimer, CE:Sep 65:36

TR:131:557

**SURFACE HEAVING**

Subsoils and Foundation Design in Richmond, Va., Leo Casagrande, SM5:Sept 66:109:4915

**SURVEYING**

Action or Retreat for Engineers and Surveyors in Regulation of Professional Practice, William A. White, CE:Jan 66:54

Arctic Siting and Surveying, Max O. Laird, SU1:Apr 65:1:4287

TR:131:829

A Cadastral Survey for Emerging Afghanistan, Lloyd A. Dove and Neymatullah, CE:Oct 66:41

The Case of the Missing Curriculum, Kenneth S. Curtis, SU2:Jul 64:27:3963

TR:131:700

Chart Converts Bearings to Angles, Virgil F. Bryant, Jr., CE:Nov 66:76

Comparison of Space Resection Adjustments, Richard H. Rapp, SU1:Jan 66:17:4605

Computer-Aided Land Surveying, J. H. Millett, J. W. King and H. J. Ridinger, CE:Oct 66:58

Computer Program for Horizontal Circle Astronomy, Lawrence A. White, SU2:Jun 66:1:4834

Consulting Practice in Surveying, William B. Wright, CE:Apr 66:61

Double Summation of Errors in Aerial Triangulation, Gordon Gracie, SU2:Sep 65:13:4467

TR:131:527

Generalized Resection Method in Surveying, K. C. Chakko, SU1:Apr 65:23:4290

TR:131:421

Highway Plans from Photogrammetrically-Compiled Maps, Lewis E. Parker, SU1:Apr 64:31:3859

TR:131:364

Measuring Structural Behavior of Glen Canyon Dam, Joe T. Richardson, SU2:Jul 64:133:3987

TR:131:410

New Uses for Survey Instruments, P. Mignaval, CE:Jan 66:44

Perpetuation of Land Survey Data, James A. Lindsey, SU2:Jun 66:13:4843

Photogrammetric Measurement of Tidal Currents, Joseph E. Waugh, SU1:Apr 64:17:3857

TR:131:35

Position by the Azimuth-Zenith Distance Method, Gabor S. Szava-Kovats, SU2:Jun 66:13:4843

Preserving Survey Monuments Despite Highway Construction, Winfield H. Eldridge, CE:May 65:40

Dsc: Richard Mayer, CE:Sep 65:74

TR:131:321



**SURVEYING Continued**

A Research Program in Surveying and Mapping:  
Progress Report of the Research Committee of  
the Surveying and Mapping Division, ASCE, R. H.  
Moore, Chmn., SU1:Jan 66:25:4629

Reservoir Topography by Shoreline Plotting,  
David L. Crandall, SU1:Apr 64:39:3874

TR:131:579

STADIA--an Automatic Data Input Assembler  
for Topographic Surveys, Paul D. Spindel, CE:  
May 65:31

TR:131:580

Surveying and Mapping for Water Resource  
Planning, Kurt W. Bauer, SU1:Apr 64:1:3855

TR:131:19

Vertical Control on the Great Lakes, Gilbert  
E. Ropes, SU1:Apr 65:35:4289

TR:131:561

**SURVEYS**

Concrete Pavement Performance at Ten Civil  
Airports, Martin L. Cawley, AT2:Nov 66:83:  
4981

**SUSPENSION BRIDGES**

Aerodynamic Stability of H Sections, Daniel  
Dicker, EM2:Apr 66:1:4764

Japan--Longest suspension bridge planned,  
CE:Oct 66:90

New Jersey--Towers for twin Delaware  
Memorial Bridge completed, CE:June 66:96

New method of fabricating suspension bridge  
cables, CE:Feb 66:81

Plastic Cable Covering Introduced on California  
Suspension Bridge, Jackson L. Durkee and  
George B. Shaw, Jr., CE:Feb 66:63

Portugal--Tagus River Bridge opens ahead of  
schedule, CE:Sept 66:98

SVERN River bridge opens ahead of schedule,  
CE:Oct 66:89

Structural Analysis of Suspension Bridges,  
Trevor J. Poskitt, ST1:Feb 66:49:4664

Suspender Ropes for George Washington Bridge  
Pass Rigid Tests but Need Maintenance, Irvine  
P. Gould and Henry A. Druding, CE:July 66:52

Tagus River Bridge--for Highway and Railway  
Traffic, R. M. Boynton, CE:Feb 66:34

Tagus River Bridge--Tower Piers, Louis W.  
Riggs, CE:Feb 66:41

Theoretical Analysis of Suspension Bridges,  
Saafan A. Saafan, ST4:Aug 66:1:4885

Venezuela--Cable spinning for Orinoco River  
bridge begins, CE:Sept 66:102

Verrazano-Narrows Bridge: Conception of De-  
sign and Construction Procedure, Othmar H.  
Ammann, CO2:Mar 66:5:4741

Verrazano-Narrows Bridge: Construction of  
Tower Foundations and Anchorages, Nomer Gray  
and George H. Decanq, CO2:Mar 66:95:4744

Verrazano-Narrows Bridge: Design of Super-  
structure, Milton Brumer, Herbert Rothman,  
Michael Fliegen, and Benjamin Forsyth, CO2:  
Mar 66:23:4742

Verrazano-Narrows Bridge: Design of Tower  
Foundations and Anchorages, Leo H. Just, Ira  
G. Levy, and Vladimir Obric, CO2:Mar 66:71:  
4743

Verrazano-Narrows Bridge: Development and  
Financing Project, Peter J. Reidy, CO2:Mar 66:  
1:4740

Verrazano-Narrows Bridge: Fabrication and  
Construction of Superstructure, John W. Kinney,  
Herbert Rothman, and Frank Stahl, CO2:Mar 66:  
119:4745

Virginia--Lift span floated to highway bridge in  
Hopewell, CE:Nov 66:98

Washington--Legacy of Galloping Gertie  
(Tacoma Narrows Bridge), Robert Goller, CE:  
Oct 65:50

TR:131:704

**SYSTEM**

Distribution System Equalizing Storage Hydraul-  
ics, M. B. McPherson and R. Prasad, HY6:Nov  
66:151:4987

**SYSTEMS ENGINEERING**

Maintenance--the Systems Approach, Thomas  
C. Kavanagh and Sidney M. Johnson, CE:July  
66:31

The Systems Approach to Traffic Safety, Rex  
M. Whitton, CE:Sept 66:40

Dsc, Wilson T. Ballard, CE:Dec 66:61

**TANKS**

Mounting Plate Glass in Sides of Flumes and  
Tanks, Elton F. Daly, CE:Jun 65:74

TR:131:586

Preloading Results in Tank Foundation Econom-  
ies, Louis J. Goodman and Norbert E. Faltyn,  
CO1:May 65:125:4335

TR:131:843

Storage Containers for Liquefied Natural Gas,  
P. J. Anderson and A. R. Khan, CE:Aug 65:65

TR:131:516

Temperature Stresses in Steel Grain-Storage  
Tanks, Paul Andersen, CE:Jan 66:74

Two-tank system for offshore storage of crude  
oil, CE:Jan 66:94

**TELEVISION**

New Jersey--A Revolution in Sewer Mainte-  
nance at Woodbridge, Charles W. Beagle, CE:  
Mar 65:34

TR:131:141

West Virginia--TV Proves Useful for Sewer  
Inspection by Corps of Engineers, Richard H.  
Hayes, CE:Jan 66:66

**TEMPERATURE**

Predicting Temperatures in Rivers and  
Reservoirs, William H. Delay and John Seaders,  
SA1:Feb 66:115:4675

**TENNESSEE VALLEY AUTHORITY**

Tennessee--TVA to build Dam on the Elk River,  
CE:Jan 66:94

TVA awards contract for first nuclear plant,  
CE:Aug 66:94

TVA begins work on Tims Ford dam, CE:  
May 66:92

TVA's Bull Run steam station has world's  
largest power unit, CE:Aug 66:97

## TERMINALS

- Airports and the Supersonic Transport, John F. McDonald, AT1:Jan 66:107:4614
- Terminal Planning for Future Highways; Progress Report of the Committee on Terminals, Highway Division, ASCE, George W. Blomme, Chmn., HW2: Oct 66:61:4944
- Transportation Centers, Wilbur S. Smith, UP1: Jul 65:18:4396
- TR:131:137

V/STOL Transports and Their Terminal Requirements, Joseph W. Wetmore, AT1:Jan 66: 77:4612

## TESTING

- A440 Steel Joints Connected by A490 Bolts, Gordon H. Sterling, ST3:Jun 66:101:4845
- Aluminum Columns--Have Capacities of Heat-Treated, Welded Members Been Underestimated?, Herman E. Reitman, CE:June 66:75
- Analysis and Application of the Step-Drawdown Test, Donald H. Lennox, HY6:Nov 66:25:4967
- Analysis of Data from Stepwise Throttled Pump Test Gert Aron and Verne H. Scott, HY6:Nov 66: 95:4977
- Asphalt Pavement Placed and Compacted in Thick Lifts, Carl E. Minor, CE:May 66:60
- Augered-in Concrete Piles Support Boeing Aerospace Activities, Norman L. Liver, CE: Oct 66:60
- Bed Forms Due to a Fluid Stream, Harry M. Hill, HY2:Mar 66:127:4724
- Behavior of a Soil Mass Under Dynamic Loading R.W. Sparrow and A.C. Tory, SM3:May 66: 59:4825
- Behavior of Diaphragm-Braced Columns and Beams, George Pincus and Gordon P. Fisher, ST2:Apr 66:323:4792
- Behavior of Fasteners and Plates with Holes, John W. Fisher, ST6:Dec 65:265:4587
- TR:131:854
- Boundary Layer Development and Spillway Energy Losses, Frank B. Campbell, Robert C. Cox, and Marden B. Boyd, HY3:May 65:149:4331
- TR:131:872
- Brittleness in Higher Strength Bolts, Frank L. Gill and Roger M. Hansen, ST1:Feb 66:89:4666
- Buckling of Long Unsupported Timber Piles, Earle J. Kohn and G.T. Hughes, SM6:Nov 64: 107:4141
- TR:131:235
- Buckling of Soil-Surrounded Tubes, Ulrich Luscher, SM6:Nov 66:211:4990
- Calibration of Alloy Steel Bolts, Richard J. Christopher, Geoffrey L. Kulak, and John W. Fisher, ST2:Apr 66:19:4768
- Calibration Test of A490 High-Strength Bolts, Gordon H. Sterling, Emile W.J. Troup, Eugene Chesson, Jr., and John W. Fisher, ST5:Oct 65: 279:4515
- TR:131:583
- California--Rapid-Transit Test Track for San Francisco, Leslie A. Irvin, CE:Aug 65:48
- TR:131:496
- Canal Discharge Measurements with Radioisotopes, Jack C. Shuster, HY2:Mar 65:101:4258
- TR:131:359

Capacity Tests in Large Concrete-Lined Canals, Paul J. Tilp, HY3:May 65:189:4337

- TR:131:846
- Characteristics of Soil-Asphalt as a Rate Process, M. Abdel-Hady and Moreland Herrin, HW1:Mar 66:49:4719
- Clay Strength Under Earthquake Loading Conditions, H. Bolton Seed and Clarence K. Chan, SM2:Mar 66:53:4723
- Collapse Loads for Circular-Arc Beams, Neil Jackson, ST5:Oct 66:1:4925
- Compartmentalization of Aeration Tanks, William F. Milbury, Wesley O. Pipes, and Robert B. Grieves, SA3:Jun 65:45:4362
- TR:131:748

Computer Analysis of Towers Verified by Testing, Charles F. Beck and Max Zar, ST6:Dec 66: 361:5018

Consolidation of Slightly Overconsolidated Soils, Gerald Patrick Raymond, SM5:Sept 66:1: 4893

Consolidation Testing with Back Pressure, John Lowe, III, Philip F. Zacheo, and Harvey S. Feldman, SM5:Sept 64:69:4058

TR:131:121

Coupled Vibrations of Thin-Walled Elastic Bars, Wai Keung Tso, EM3:Jun 65:33:4358

TR:131:175

Creep in Grouted Sleeve Splices of Reinforcing Bars, Don Ivey, CE:Aug 66:54

Designing Specifications--A Challenge, Edward A. Abdun-Nur, CO1:May 65:29:4315

TR:131:604

Development of a New Type of Rapid Sand Filter, Raymond E. Hebert, SA1:Feb 66:31:4649

Dividing Flow in an Open Channel, Shiu Wai Law and Alan J. Reynolds, HY2:Mar 66:207:4730

Dynamic Behavior of Massive Guy Cables, Alan G. Davenport and George N. Steels, ST2: Apr 65:43:4293

TR:131:511

Effect of Large Alternating Strains on Steel Beams, Vitelmo V. Bertero and Egor P. Popov, ST1:Feb 65:1:4217

TR:131:481

Elastic Stability of Radially Nonhomogeneous Rings, S. Russell Keim, EM4:Aug 65:115:4447

TR:131:786

Experimental Analysis of Continuous Folded Plates, Fred W. Beaufait and George A. Gray, ST1:Feb 66:11:4661

Experimental Research on Lock Hydraulic Systems, John P. Davis and Thomas E. Murphy, WW1:Feb 66:17:4643

Experimental Stresses in Wide Flange Beams with Holes, John E. Bower, ST5:Oct 66:167:4945

Experimental Study of Two-Layered Flow Through a Sink, D. Grant Huber and T.L. Reid, HY1:Jan 66:31:4618

Experiments on Lateral Dispersion in Porous Media, Wen-Hsiung Li and Fu-Hsiung Lai, HY6: Nov 66:141:4886

Field Techniques for Evaluating Aerators, Richard A. Conway and Gordon W. Kunke, SA2: Apr 66:21:4757

## TESTING Continued

- Flow Characteristics of PVC Sewer Pipe, Lawrence C. Neale and Robert E. Price, SA3: Jun 64:109:3955  
TR:131:840
- Flow Measurements with Fluorescent Traces, John A. Replogle, Lloyd E. Myers, and Kenneth J. Brust, HY5:Sept 66:1:4895
- Flow Visualization Across Main Flow, A. Kumar, HY1:Jan 66:65:4626
- Foam Separation for Water Clarification, Robert B. Grieves, SA1:Feb 66:41:4650
- Fundamental Aspects of the Atterberg Limits, H. Bolton Seed, Richard J. Woodward, and Raymond Lundgren, SM6:Nov 64:75:4140  
TR:131:531
- Generalized Kelvin-Voigt Used in Soil Dynamics Study, Bobby O. Hardin and Gordon D. Scott, EMI:Feb 66:143:4678
- Generation of Wind Waves, Robert L. Wiegel and Ralph H. Cross, WW2:May 66:1:4816
- High-Strength Bolts Subjected to Tension and Shear, Eugene Chesson, Jr., Norberto L. Faustino, and William H. Munse, ST5:Oct 65: 155:4512  
TR:131:588
- How to Get Good Concrete, Delmar L. Bloem, CE:Mar 66:66
- Hydraulic Design of Pump Intakes, Ralph T. Hattersley, HY2:Mar 65:223:4276  
TR:131:347
- Hydraulic Testing of the 24-in. Leidy Line, Denver S. Patton, Jr., PL2:Nov 64:15:4132  
TR:131:656
- Importance of Strain Hardening in Plastic Design, Alexander P. Hrennikoff, ST4:Aug 65: 23:4424  
TR:131:856
- In Situ Measurement of Solids in Final Clarifiers, E. Arlyn, Richard S. Wullschlegler, and William J. Katz, SA1:Feb 66:183:4686
- In-Situ Strength Characteristics of Soft Clays, I. Noorany and H. Bolton Seed, SM2:Mar 65:49: 4274  
TR:131:323
- Interpretation of the Consolidation Test, Carl B. Crawford, SM5:Sep 64:87:4056  
TR:131:13
- Large Plastic Deformation of Pressurized Cylinders, Martin A. Salmon, EM3:Jun 66:33: 4854
- Lateral Pressure of Concrete on Formwork, R.L. Peurifoy, CE:Dec 65:60
- Disc and addendum, A.G.G. Ritchie, CE: Mar 66:86; Peter D. Courtois, CE:Apr 66:64  
TR:131:679
- Limit Analysis of Notched Tension Specimens, Walid H. Rimawi, Seng-Lip Lee, and T. Mura, EMI:Feb 66:11:4636
- Load Transfer for Axially Loaded Piles in Clay, Harry M. Coyle and Lyman C. Reese, SM2:Mar 66:1:4702
- Longitudinal Stiffeners for Compression Members, Maurice L. Sharp, ST5:Oct 66:187:4948
- Loop Systems for Measuring Sand-Water Mixtures, Hans A. Einstein and Walter H. Graf, HY1:Jan 66:1:4608

Lunar Problems in Soil Engineering, Ronald F. Scott, SM1:Jan 65:1:4194

- TR:131:710
- Masonry Walls on Continuous Beams, Saky Rosenhaupt and Yehuda Sakal, ST1:Feb 65:155: 4226  
TR:131:504
- Measurement of Ruffled Water Surface Elevation, A.J. Raudkivi, HY2:Mar 65:65:4254  
TR:131:288
- Methods of Estimating Settlement, T. William Lambe, SM5:Sep 64:43:4060  
TR:131:65
- Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66:23:4936
- Model Study of Dynamically Loaded Arch Structures, Don R. Denton and William J. Flathau, EM3:Jun 66:17:4848
- The Nature of Damping in Sands, Bobby O. Hardin, SM1:Jan 65:63:4206  
TR:131:299
- Partial Demineralization of Brackish Waters, Robert L. Sands and Warren J. Kaufman, SA6: Dec 66:57:5037
- Permeability of Compacted Clay, James K. Mitchell, Don R. Hooper, and Richard G. Campanella, SM4:Jul 65:41:4392  
TR:131:647
- Pile Load Capacity: Estimates and Test Results, William S. Housel, SM4:Jul 66:1:4861
- Piles in Cohesionless Soil Subject to Oblique Pull, Yoshiaki Yoshimizu, SM6:Nov 64:11:4124  
TR:131:229
- Plane Strain Tests on a Saturated Remolded Clay, David J. Henkel and Neil H. Wade, SM6: Nov 66:67:4970
- Plastic Behavior of Tubular Beam Columns, Timothy J. Dwyer and Theodore V. Galambos, ST4:Aug 65:153:4446  
TR:131:537
- Pore Water Pressures in Unsaturated Soils, Roy E. Olsen and Leonard J. Langfelder, SM4: Jul 65:127:4409  
TR:131:365
- Quality Control in Construction, W.O. Hiltabidle, Jr., Bradford N. Clark, Charles E. Schaffner, John Nelson Linn, Ralph E. De Simone, Arnold H. Voilmer, Elmer B. Isaak, Leslie D. Long, Richard Q. Praeger, Hal W. Hunt, CO1:May 65:141:4340  
TR:131:660
- Quality Control of Asphalt Pavement, Charles R. Foster, CO3:Sept 66:41:4902
- Quality Control of Compacted Earthwork, W.J. Turnbull, J.R. Compton, and R.G. Ahlvin, SM1: Jan 66:93:4623
- Radial Drainage Oedometer for Laminated Clays, D.H. Shields and P.W. Rowe, SM1: Jan 65:15:4198  
TR:131:339
- Rock Trap Experience in Unlined Tunnels, John J. Mattimore, E. Roy Tinney, and W. Weston Wolcott, PO3:Oct 64:29:4067  
TR:131:33

## TESTING Continued

- Rockfill Design-Carters Dam, Fred A. Roberson and Robert L. Crisp, Jr., CO3:Sept 66:51:4906
- Sand Stiffness Under Various Triaxial Stresses, Bobby O. Hardin and William L. Black, SM2:Mar 66:27:4712
- Second Order Equation for BOD, James C. Young and John W. Clark, SA1:Feb 65:43:4232
- TR:131:267
- Shear Strength of High-Strength Bolts, James J. Wallaert and John W. Fisher, ST3:Jun 65:99:4368
- TR:131:766
- Shock Waves in Granular Soil, Robert D. Stoll and Ibrahim L. Ebeido, SM4:Jul 65:107:4406
- TR:131:459
- Siting of Manned Lunar Launch Facilities, Arthur G. Porcher, AT1:Jan 66:145:4630
- Some Swelling Characteristics of Compacted Clays, James V. Parcher and Ping-Chuan Lin, SM3:May 65:1:4316
- TR:131:641
- Specification Tolerances for Turbine Homology, Edward J. Groscurth, PO1:Jan 66:55:4625
- Stability of Structures with Small Imperfections, John Roorda, EM1:Feb 65:87:4230
- TR:131:63
- Study of Static Pressure Along a Rough Boundary, J.L. Chao and Virgil A. Sandborn, HY2:Mar 65:193:4269
- TR:131:337
- Strength Characteristics of Desiccated Clays, Geoffrey E. Blight, SM6:Nov 66:19:4966
- Strength of Reinforced Concrete Folded Plate Models, Alexander C. Scordelis and Peter V. Gerasimenko, ST1:Feb 66:35:1:4688
- Stress-Dilatancy Performance of Feldspar, I.K. Lee, SM2:Mar 66:79:4734
- Study of Dynamic and Static Failure Envelopes, B.B. Schimming, H.H. Haas, and H.C. Saxe, SM2:Mar 66:105:4735
- Subsurface Stabilization of Organic Silty Clay by Precompression, Ernest Jonas, SM5:Sep 64:363:4031
- TR:131:242
- Survival of S. Typhi in Sewage Oxidation Ponds, Michael G. McGarry and Patrick H. Bouthillier, SA4:Aug 66:33:4878
- Suspender Ropes for George Washington Bridge Pass Rigid Tests but Need Maintenance, Irvine P. Gould and Henry A. Druding, CE:July 66:52
- Test of a Flat Slab Reinforced with Welded Wire Fabric, James O. Jirsa, Mete A. Sozen, and Chester P. Siess, ST3:Jun 66:199:4852
- Tests of Partially Prestressed Concrete Girders, Donald D. Magura and Eivind Hognestad, ST1:Feb 66:327:4695
- Tests Verify Design for TVA's 500-kv Towers, Gene M. Wilhoite, PO3:Oct 64:81:4082
- TR:131:90
- Three-Dimensional Analysis of Tier Buildings, William Weaver, Jr. and Mark F. Nelson, ST6:Dec 66:385:5019
- Tractive-Force Distribution in Open Channels, John Asher Replogle and Ven Te Chow, HY2:Mar 66:169:4727

Ultimate Strength of Reinforced Concrete Flat Slabs, Morris W. Self, ST4:Aug 64:205:4013

TR:131:27

Verrazano-Narrows Bridge: Design of Tower Foundations and Anchorages, Leo H. Just, Ira G. Levy, and Vladimir Obricjan, CO2:Mar 66:71:4743

Vibration Tests of a Nine-Story Steel Frame Building, N. Norby Nielson, EM1:Feb 66:81:4660

Virus Removal in Sewage Treatment, Albert F. Bush and John D. Isherwood, SA1:Feb 66:99:4653

Washington--Lunar orbiter spacecraft to be tested in Seattle, CE:Apr 66:82

Water Hammer Resulting From Cavitating Pumps, M.R. Carstens and T.W. Hagler, Jr., HY6:Nov 64:161:4143

TR:131:277

World's Fair structures to be tested by Building Research Advisory Board, CE:Feb 66:47

## TEXAS

Surveying and Mapping Aspect, Storm Tide Protection, George M. Mayfield, SU1:Jan 66:1:4599

## THERMOELECTRIC POWER GENERATION

Georgia--River Bypass Boosts Efficiency of Power Plant on Chattahoochee River, CE:Nov 65:88

TR:131:714

## TIDES

France--Rance River tidal dam finished, CE:May 66:91

Photogrammetric Measurement of Tidal Currents, Joseph E. Waugh, SU1:Apr 64:17:3857

TR:131:35

Simple Apparatus for Producing Model Tides, Johan Albert Zwamborn, HY2:Mar 65:39:4250

TR:131:283

Tidal Characteristics of Two Estuaries in Florida, William B. Stelzenmuller, WW3:Aug 65:25:4431

TR:131:545

Yearly Sea Level Variations for the United States, Steady D. Hicks and William Shofnos, HY5:Sep 65:23:4468

TR:131:456

## TILES

Steady-State Theories for Drainage, Don Kirkham, IRI:Mar 66:19:4707

Subsoils and Foundation Design in Richmond, Va., Leo Casagrande, SM5:Sept 66:109:4915

Tile Drainage Performance, Coachella Valley, California, Arthur F. Pillsbury, J.R. Spencer, William R. Johnston, and L.O. Weeks, IR2:Jun 65:1:4344

TR:131:9

Two-Dimensional Infiltration and Wetting Fronts, Sadik Toksoz, Don Kirkham and E. Robert Baumann, IR3:Sep 65:65:4477

TR:131:514

**TIMBER CONSTRUCTION**

- Brown's Timber Railroad Bridges, Karl Cullman, Max Steinhaus, translator, CE:Nov 66:72  
 Designing Wood Structures for Durability, Elton F. Jones, CE:July 66:44  
 Dsc, Robert E. Mills, Sr., CE:Nov 66:77  
 Utah--A National Forest at Vernal Goes Modern, D.G. Dalley, CE:Sep 65:67  
 TR:131:768

**TIMBER (Structural)**

- Details that Cause Failure in Timber Truss Design, Paul Gordon, CE:Oct 65:74  
 TR:131:667

**TOPOGRAPHY**

- Design and Construction Features: Boundary Project, H.V. Strandberg, PO2:Apr 66:157:4753  
 STADIA--an Automatic Data Input Assembler for Topographic Surveys, Paul D. Spindel, CE:May 65:51  
 TR:131:580

**TOPOLOGY**

- Network Analysis of Structures, Frank L. Di Maggio and William R. Spillers, EM3:Jun 65:169:4376  
 TR:131:122

**TORSION**

- Interaction of Edge Beams with Doubly Curved Shells, Graham H. Powell, ST3:Jun 66:57:4941  
 Torsion of Structural Shapes, I.A. El Darwish and Bruce G. Johnston, ST1:Feb 65:203:4228  
 TR:131:428

**TOWERS**

- Asbestos-Cement Pipe for a Tower, Yen H. Dong, CE:Oct 66:46  
 Analysis of Four-Legged Tower for Dynamic Loads, David P. Billington, William S. Gaither, and Alan M. Ebner, EM2:Apr 66:61:4769  
 Analysis of High Guyed Towers, Ezra G. Odley, ST1:Feb 66:169:4671  
 Buckling of Three-Legged Columns with Batten Bracing, Jorge Y. Tamayo and Morris Ojalvo, ST1:Feb 65:141:4224  
 TR:131:419  
 A Church of Unusual Design, Loton R. Eastman, CE:Sept 66:54  
 Computer Design of a Tower and Cable System, R.A. Williamson, H.F. Stevenson, and P.W. Van der Pas, ST6:Dec 66:341:5017  
 Design of Guyed Towers by Interaction Diagrams, Haaren A. Miklofsky and Martin G. Abegg, ST1:Feb 66:245:4680  
 Dynamic Behavior of Massive Guy Cables, Alan G. Davenport and George N. Steels, ST2:Apr 65:43:4293  
 TR:131:511  
 Factors Effecting Seismic Design of Water Towers, B.K. Ramiah and D.S. Rajata Mohana Gupta, ST4:Aug 66:13:4866

- Florida--Criteria for Construction in Creating Another Cape Kennedy Colossus, George H. Kirkland, CE:Oct 65:59  
 TR:131:694

- Florida--Tallest movable structure will service Saturn V Rocket, CE:Dec 66:83  
 Lunar Launch Complex 39, Victor F. Leabu, CE:May 66:37  
 Shear Effects in Design of Guyed Towers, Robert A. Williamson and M.N. Margolin, ST5:Oct 66:213:4951  
 Steel Offshore Towers as Navigation Aids, J.V. Ruffin, CE:Nov 65:72  
 Dsc, C.J. Posey, CE:Feb 66:74  
 Author's reply, CE:Feb 66:74  
 TR:131:645

- Tests Verify Design for TVA's 500-kv Towers, Gene M. Wilhoite, PO3:Oct 64:81:4082  
 TR:131:90

- Tilt and Deflections of Tapered Polygonal Towers, Ralph J. Pshunder, ST3:Jun 65:151:4373  
 TR:131:143

- Transmission Tower Foundations, Dallas I. Downs and Robert Chieurzzi, PO2:Apr 66:91:4750  
 Verrazano-Narrows Bridge: Design of Superstructure, Milton Brumer, Herbert Rothman, Michael Fiegen, and Benjamin Forsyth, CO2:Mar 66:23:4742

- Verrazano-Narrows Bridge: Fabrication and Construction of Superstructure, John W. Kinney, Herbert Rothman, and Frank Stahl, CO2:Mar 66:119:4745  
 Vibration of Towers as Related to Wind Pulses, Arthur N.L. Chiu and Donald A. Sawyer, ST5:Oct 64:137:4114  
 TR:131:108

- Virginia--Construction of Chesapeake Light Station, John W. Fowler, CE:Nov 65:76  
 TR:131:650

- Virginia--Towers for a 500-kv Transmission Line, S.D. Alpert and J.D. Shaw, CE:Feb 65:52  
 TR:131:123

**TRACERS**

- Application of Radioactive Tracers to Stream Improvements, William A. Cawley and Wyman C. Rutledge, SA1:Feb 66:1:4640  
 Dispersion Measurement in Open Channels, Calvin C. Patterson and Earnest F. Gloyna, SA3:Jun 65:17:4347  
 TR:131:46

- Flow Measurements with Fluorescent Tracers, John A. Replogle, Lloyd E. Myers, and Kenneth J. Brust, HY5:Sept 66:1:4895  
 Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66:23:4936  
 Radioactive Equilibrium Time, William A. Goldsmith and Eddie Joe Middlebrooks, SA6:Dec 66:85:5045

**TRAFFIC**

- Large U.S. Cities plan rapid transit systems, CE:June 66:100

**TRAFFIC Continued**

- Optimum Size Seaport, Carl H. Plumlee, WW3: Aug 66:14880
- Small Parking Garages for Huge Los Angeles International Airport, Grant S. Anderson, CE: Aug 66:43
- The Systems Approach to Traffic Safety, Rex Whitton, CE:Sept 66:40
- Traffic Accident Study on Milwaukee Expressway, Bruce A. Lind and H. Hong, HW1:Jan 65:25:4205

TR:131:810

- Traffic Assignment by the Maximum Principle, Tsung-chang Yang and Robert R. Snell, HW2: Oct 66:14917

**TRANSMISSION LINES**

- Canada--Hydro Development of the Manicouagan and Outardes Rivers in Quebec, Benoit Baribeau, CW:Dec 65:53

TR:131:744

- Contract for transmission line for Pacific Northwest-Pacific Southwest Intertie awarded, CE:Apr 66:82

- The Pacific Northwest-Pacific Southwest Intertie, E. V. Lindseth, CE:Dec 66:46
- Short Span Sag Calculations with Insulator Belle, Thomas E. Leland, PO1:May 65:114317

TR:131:127

- Transmission Tower Foundations, Dallas I. Downs and Robert Chieuzzi, PO2:Apr 66:91:4750

- Virginia--Towers for a 500-kv Transmission Line, S. D. Alpert and J. D. Shaw, CE:Feb 65:52

TR:131:123

**TRANSPORTATION**

- Airport Accessibility and Detroit Passengers, Rolla Edward Park, AT2:Nov 66:65:4974
- Airports and Transit Systems--the Engineer's Challenge, J. K. Carr, CE:Apr 65:38

- Disc: Herbert C. Westfall, CE:Jun 65:72

TR:131:233

- ASCE participates in National Transportation Symposium in conjunction with the Ninth Joint Railroad Conference, CE:Aug 66:40

- The BART Trans-Bay Tube, George J. Murphy with Donald N. Tanner, CE:Dec 66:51

- Boxcar supply bill will relieve transportation shortage, CE:July 66:88

- Duplicate Locks for Illinois Waterway, William J. Santina and George B. Wesler, WW4: Nov 64:14118

TR:131:159

- Engineering Principles of Urban Transportation Planning, Kurt W. Bauer, HW2:Dec 65:14559

TR:131:821

- Factors Considered in Urban Transportation Planning, Charles G. Beer, HW2:Dec 65:514582

TR:131:874

- Functional Planning of Bulk Material Ports, Leonard S. Oberman, WW2:May 65:174310

TR:131:88

- Hawaii-Transit study for Oahu planned, CE: Aug 66:96

- High-speed trains in Northeast corridor, CE: Dec 66:80

- Interpretation of Costs, Matthew J. Betz, HW2:Oct 66:49:4937

- Interstate = Benefits (Lives + Dollars), Frank Schneller, CE:May 65:33

TR:131:313

- Local sections encouraged to form urban transportation groups, CE:Oct 66:82
- Moving 165 Million Tons for World's Highest Compacted Fill-Oroville Dam, R. C. McDowell, CE:Apr 66:26

- Disc, E. M. T. Ryder, CE:Aug 66:73; Disc & reply, Alfred R. Golze, CE:Aug 66:73
- Operations Research Approach to the Reciprocal Impact of Transportation and Land Use, William S. Pollard, UP1:May 66:214812
- Planning Public Mass Transportation, Henry D. Quinby, HW1:Jan 65:154190

TR:131:827

- Practical Tonnage Capacity of Canalized Waterways, Erie E. Bottoms, WW1:Feb 66:334644
- Renaissance in Rapid Transit, Kneeland A. Godfrey, Jr., CE:Dec 66:28

- Role of the City Engineer in Urban Planning, Douglas W. Talbot, UP1:May 66:474826

- Short-haul transportation to be studied for NASA by Boeing Co., CE:Oct 66:89

- Similarity Laws for Localized Scour, Marion R. Carstens, HY3:May 66:134818

- Terminal Planning For Future Highways; Progress Report of the Committee on Terminals, Highway Division, ASCE, George W. Blomme, Chmn., HW2:Oct 66:614844

- Transportation Centers, Wilbur S. Smith, UP1: Jul 65:194396

TR:131:137

- Transportation Engineering Conference and Annual Meeting, Oct. 17-21, Philadelphia, Pa., CE:July 66:40; program, Aug 66:65; ASCE awards, Oct 66:75; report Nov 66:44

- Urban transportation council extends program, CE:May 66:78

- Westinghouse designs experimental transit system, CE:Dec 66:82

TR:131:137

- Double Summation of Errors in Aerial Triangulation, Gordon Gracie, SU2:Sep 65:134467

TR:131:527

- Generalized Resection Method in Surveying, K. C. Chakko, SU1:Apr 65:234290

TR:131:421

- Westinghouse designs experimental transit system, CE:Dec 66:82

**TRIANGULATION**

- Double Summation of Errors in Aerial Triangulation, Gordon Gracie, SU2:Sep 65:134467

TR:131:527

- Generalized Resection Method in Surveying, K. C. Chakko, SU1:Apr 65:234290

TR:131:421

- Westinghouse designs experimental transit system, CE:Dec 66:82

TR:131:421

**TRIAXIAL TESTING**

- Stress-Strain Relationships in Triaxial and Consolidation Tests, Dalim K. Majumdar and Gary G. La France, CE:July 66:88

TR:131:821

- Factors Considered in Urban Transportation Planning, Charles G. Beer, HW2:Dec 65:514582

TR:131:874

- Functional Planning of Bulk Material Ports, Leonard S. Oberman, WW2:May 65:174310

TR:131:88

- Hawaii-Transit study for Oahu planned, CE: Aug 66:96

- High-speed trains in Northeast corridor, CE: Dec 66:80

TR:131:159

- Analysis of Truss-Plate Structures, James W. Gillespie, ST2:Apr 65:1294300

TR:131:551

- Interpretation of Costs, Matthew J. Betz, HW2:Oct 66:49:4937

- Interstate = Benefits (Lives + Dollars), Frank Schneller, CE:May 65:33

TR:131:313

- Local sections encouraged to form urban transportation groups, CE:Oct 66:82

- Moving 165 Million Tons for World's Highest Compacted Fill-Oroville Dam, R. C. McDowell, CE:Apr 66:26

- Disc, E. M. T. Ryder, CE:Aug 66:73; Disc & reply, Alfred R. Golze, CE:Aug 66:73

- Operations Research Approach to the Reciprocal Impact of Transportation and Land Use, William S. Pollard, UP1:May 66:214812



**TRUSSES Continued**

- Analysis of Vierendeel Truss with Inclined Chords, Hsien-San Tsang, ST5:Oct 66:147:4942  
 Behavior of Elastic Plastic Trusses with Unstable Bars, Giulio Maier, EM3:Jun 66:67:4858  
 Details that Cause Failure in Timber Truss Design, Paul Gordon, CE:Oct 65:74  
 TR:131:667  
 Long Trusses Provide Adjustable Space, Harry P. Vankerhoff, CE:July 66:67  
 Dsc, Hamilton V. Bowser, CE:Nov 66:78; author's reply, CE:Nov 66:78  
 Operational Method for Pin-Jointed Trusses, Benosuke Tanimoto, ST3:Jun 66:179:4851  
 Synthesis of a Space Truss Based on Dynamic Criteria, J. William Young, Jr. and Henry N. Christiansen, ST6:Dec 66:425:5021

**TUBES**

- The BART Trans-Bay Tube, George J. Murphy with Donald N. Tanner, CE:Dec 66:51  
 Buckling of Soil-Surrounded Tubes, Ulrich Luscher, SM6:Nov 66:211:4990  
 California--BARTD to build underwater rapid transit tube, CE:Mar 66:107  
 California--First section of Trans-Bay tube launched in San Francisco Bay, CE:Nov 66:96  
 Dynamic Response of a Tube Under Moving Pressure, Sing-chih Tang, EM5:Oct 65:97:4508  
 TR:131:730  
 Framing Connections for Square Structural Tubing, Richard N. White and Pen Jeng Fang, ST2:Apr 66:175:4782

**TUNNELING (Excavation)**

- Colorado--Reclamation Firsts: Underground Power Plant at Morrow Point Dam, B.P. Bellport, CE:Feb 65:40  
 TR:131:105  
 Colorado--Ruedi Dam diversion tunnel completed, CE:Apr 66:81  
 Contractor's View on Unlined Tunnels, Alfred M. Petrofsky, PO3:Oct 64:91:4086  
 TR:131:43  
 First International Congress on Rock Mechanics, Jacob Feld, CE:Dec 66:58  
 Machine Tunneling on Missouri River Dams, Lloyd B. Underwood, CO1:May 65:1:4314  
 TR:131:780  
 Revised Bibliography on Chemical Groutings; Third Progress Report of the Committee on Grouting, Soil Mechanics and Foundations Division, ASCE, W.K. Seaman, Chmn., SM6:Nov 66:39:4969  
 Rock Trap Experience in Unlined Tunnels, John J. Mattimoe, E. Roy Tinney, and W. Weston Wolcott, PO3:Oct 64:29:4067  
 TR:131:33  
 Tunnel Design in Massive Rocks, Lawrence Adler, SM6:Nov 66:189:4989  
 Tunnels for Hydroelectric Power in Tasmania, Henry H. Thomas and Lindsay S. Whitman, PO3:Oct 64:11:4065  
 TR:131:84  
 Unlined Tunnels of the Snowy Mountain Hydro-Electric Authority, Australia, H.E. Dann, W.P. Hartwig, and J.R. Hunter, PO3:Oct 64:47:4071  
 TR:131:17

Unlined Tunnels of the Southern California Edison Company, Ralph W. Spencer, Bruce R. Lavery, and Dean A. Barber, PO3:Oct 64:105:4087

- TR:131:73  
 Wyoming--Rock Mechanics Study in Highway Tunnels Determines Design of Supports and Lining, Howard B. Dutro, CE:Feb 66:60

**TUNNELS (Transportation)**

- California--First section of Trans-Bay tube launched in San Francisco Bay, CE:Nov 66:96  
 Colorado--designer chosen for tunnel under Rockies, CE:Apr 66:79  
 Deep Tunnel Plan proposed for the Chicago area, CE:July 66:37  
 England--Mersey River tunnel under construction, CE:Apr 66:80  
 Roadway of George Washington Bridge and Lincoln Tunnel North Tube to be rehabilitated, CE:Mar 66:105

**TURBINES**

- Cost and Economics of Maintenance of Turbine Runner Cavitation, Harold G. Hunt, PO1:Jan 66:107:4634  
 Flow Measurements at Columbia River Power Plants, Nicholas A. Dodge, HY2:Mar 65:125:4263  
 TR:131:760  
 New York--Long Island Railroad tests first turbine rail car, CE:Nov 66:99  
 Specification Tolerances for Turbine Homology, Edward J. Groscurth, PO1:Jan 66:55:4625

**TURBULENCE**

- An Explicit Friction-Factor Relationship, Don J. Wood, CE:Dec 66:60  
 Flow Direction Measurement by Hot-Wire Anemometry, J.W. Delleur, EM4:Aug 66:45:4870  
 Fluctuating Total Head in a Viscous Sublayer, Calvin G. Clyde and Hans A. Einstein, EM2:Apr 66:251:4800  
 Submerged Hydraulic Jump, Nallamuthu Rajaratnam, HY4:Jul 65:71:4403  
 TR:131:633  
 Turbulence Measured by Electrokinetic Transducers, Hsing Chuang and Jack E. Cermak, HY6:Nov 65:1:4526  
 TR:131:743  
 Wind Driven Water Currents, W. Douglas Baines and Douglas J. Knapp, HY2:Mar 65:205:4270  
 TR:131:788

**UNDERGROUND STORAGE**

- Storage Containers For Liquefied Natural Gas, P.J. Anderson and A.R. Khan, CE:Aug 65:65  
 TR:131:516

**UNDERPASSES**

- Colorado--70-ft Underpass of Corrugated Steel Pipe for Broadmoor Hotel, Colorado Springs, Nick Pinello, CE:Nov 65:84  
 TR:131:638



**UNDERPINNING**

Surface Settlement Adjacent to Braced Open Cuts, Marc S. Caspe, SM4:Jul 66:51:4867

**UNESCO**

International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:Jul 66:33:4864

**UNIONS**

Collective Bargaining for Municipal Engineers, Herman P. Zaroni, CE:Sep 65:50

TR:131:577

To Bargain or Not to Bargain, E. Lawrence Chandler, CE:Aug 65:41

TR:131:492

"Views on Unionism, Private vs Public Competition," (The Younger Viewpoint) David B. Hammond, CE:Oct 66:86

**UNITED NATIONS**

Skyscraper annex proposed for U.N., CE: Nov 66:99

U.N. Bibliography on water available, CE: Feb 66:92

**URBAN DEVELOPMENT**

The Civil Engineer and Urban Planning, Eldridge H. Lovelace, UP1:May 66:1:4809

**URBAN PLANNING**

Action or Retreat for Engineers and Surveyors in Regulation of Professional Practice, William A. White, CE:Jan 66:54

Airports and Transit Systems--the Engineer's Challenge, J.K. Carr, CE:Apr 65:38

Dsc: Herbert C. Westfall, CE:Jun 65:72

TR:131:233

ASCE Urban Planning and Development Division conference, San Juan, Puerto Rico, Oct. 28-29, Program, CE:Sept 65:70; papers available, Nov 66:53

Avoiding Utility Interference Underground, Hertel Missimer, CE:Sep 65:36

TR:131:557

The Civil Engineer and Urban Planning, Eldridge H. Lovelace, UP1:May 66:1:4809

The Civil Engineer in Rapid Transit, John E. Everson, CE:Jan 66:60

Civil Engineering in City and Regional Planning, Melville C. Branch and L.M.K. Boelter, UP1: May 66:53:4827

Dsc: Herbert E. Clark, Jr., CE:Jul 65:76; M.I. Goldman, CE:Aug 65:74; Author's reply, Aug 65:75

TR:131:325

Engineering Principles of Urban Transportation Planning, Kurt W. Bauer, HW2:Dec 65: 1:4559

TR:131:821

Environmental Standards of Bayport, Harry E. Bovay, Jr., UP1:May 66:35:4813

Factors Considered in Urban Transportation Planning, Charles G. Beer, HW2:Dec 65:51:4582

TR:131:874

History and Techniques of Modern Urban Planning, Wolfgang G. Roessler, UP1:May 66:5:4810

Interpretation of Costs, Matthew J. Betz, HW2:Oct 66:49:4937

Interprofessional Relationships in Environmental Design, John G. Duba, CE:Feb 66:49

Jackson, Miss. in 2039 A.D., CE:Apr 65:59

Dsc: George C. Stewart, CE:Jul 65:75

TR:131:252

Operations Research Approach to the Reciprocal Impact of Transportation and Land Use, William S. Pollard, UP1:May 66:21:4812

Planning a National Airport System to Serve the 70's, Cole Morrow, CE:Aug 65:62

TR:131:512

Planning Public Mass Transportation, Henry D. Quinby, HW1:Jan 65:15:4190

TR:131:827

Reactor Containment and Environmental Considerations, Raymond O. Brittan, UP1:Sep 64:21:4037

TR:131:315

Renaissance in Rapid Transit, Kneeland A. Godfrey, Jr., CE:Dec 66:28

Role of the City Engineer in Urban Planning, Douglas W. Talbot, UP1:May 66:47:4826

San Francisco Local Section engineers plan model city, CE:June 66:84

Scope of the Solid Waste Problem, Wesley E. Gilbertson, SA3:Jun 66:1:4833

Social and Economic Factors in Highway Location, E. Wilson Campbell, HW2:Oct 66:35:4926

Transportation Centers, Wilbur S. Smith, UP1: Jul 65:19:4396

TR:131:137

Urban Atmospheric Pollution, Albert F. Bush, CE:May 65:66

Urban Planning and Development Division's Committee on Municipal Engineering meets, CE:July 66:75

What Happens When Metropolitan Areas Meet?, Alan M. Voorhees, UP1:May 66:13:4811

**U.S. AIR FORCE**

The U.S. Air Force Conserves Natural Resources, Robert H. Curtin, CE:May 66:43

**U. S. GOVERNMENT**

A New and Better Foreign Technical Assistance Program, John S. Hale, CE:Jul 65:62

Dsc: I. Khwaja, CE:Oct 65:80

TR:131:439

**U. S. NAVY**

Chile--Seabees Give Technical Assistance in Chile, Leroy D. Lawson, CE:Feb 65:47

TR:131:110

Military Engineering in Vietnam, Peter A. Corradi, CE:Nov 65:47

TR:131:617

**UTILITIES**

Alaska--Utilities for a Relocated Town in Valdez, James W. Poirot, CE:Mar 65:50

TR:131:173

**UTILITIES Continued**

Avoiding Utility Interference Underground,  
Hertel Missimer, CE:Sep 65:36

TR:131:557

Canada--Winnipeg Favors Utility Construction  
in Winter, W.S. Brock, CE:Jul 65:66

TR:131:442

**VALUE ENGINEERING**

Value Engineering in Construction, A. J.  
Dell'Isola, CE:Sept 66:58

**VEHICLES**

Craft for exploring the Moon tested, CE:Jan  
66:96

Florida--Tallest movable structure will ser-  
vice Saturn V Rocket, CE:Dec 66:83

Lunar Launch Complex 39, Victor F. Leabu,  
CE:May 66:37

**VELOCITY**

Effect of Secondary Currents on Sediment  
Transport in a Corner, Chao-Lin Chiu and John  
E. McSparran, HY:Sept 66:57:4905

Photogrammetric Measurement of Tidal  
Currents, Joseph E. Waugh, SU:Apr 64:17:3857

TR:131:35

Sediment Transportation Mechanics: Initiation  
of Motion: Progress Report of the Task Commit-  
tee on Preparation of Sedimentation Manual,  
ASCE, Vito A. Vanoni, HY:Mar 66:29L:4738

Tractive-Force Distribution in Open Channels,  
John Asher Replogle and Ven Te Chow, HY:2:  
Mar 66:169:4727

Wind Loads on Dome-Cylinder and Dome-Cone  
Shapes, F. J. Maher, ST:Oct 66:79:4933

**VERRAZANO-NARROWS BRIDGE**

Verrazano-Narrows Bridge: Conception of De-  
sign and Construction Procedure, Othmar H.  
Ammann, CO:Mar 66:5:4741

Verrazano-Narrows Bridge: Construction of  
Tower Foundations and Anchorages, Nomer Gray  
and George H. Decanay, CO:Mar 66:95:4744

Verrazano-Narrows Bridge: Design of Super-  
structure, Milton Brumer, Herbert Rothman,  
Michael Flegen, and Benjamin Forayth, CO:2:  
Mar 66:23:4742

Verrazano-Narrows Bridge: Design of Tower  
Foundations and Anchorages, Leo H. Just, Ira  
G. Levy, and Vladimir Obrcan, CO:Mar 66:  
71:4743

Verrazano-Narrows Bridge: Development and  
Financing Project, Peter J. Reidy, CO:Mar 66:  
1:4740

Verrazano-Narrows Bridge: Fabrication and  
Construction of Superstructure, John W. Kinney,  
Herbert Rothman, and Frank Stahl, CO:Mar 66:  
119:4745

**VERTICAL TAKE-OFF PLANES**

V/STOL Transports and Their Terminal Re-  
quirements, Joseph W. Wetmore, AT:1:Jan 66:  
77:4612

**VIBRATION**

Alabama--Low Cement Content for Mass  
Concrete in TVA's Guntersville Lock, J.C.  
McCraw, CE:Nov 65:70

TR:131:634

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Demeter C. Fertis, ST:Feb 66:365:4689

Dynamic Response of a Tube Under Moving  
Pressure, Sing-chih Tang, EM:Oct 65:97:4508

TR:131:730

Dynamics of Separable Multistory Buildings,  
John S. Maybee, John E. Goldberg, and Ervin  
D. Herness, EM:Apr 66:153:4788

Factors Effecting Seismic Design of Water  
Towers, B.K. Ramiah and D.S. Rajata Mohana  
Gupta, ST:Aug 66:13:4886

Flexibility in Cylinder Groups Oscillated in  
Water, Alan D.K. Laird, WW:3:Aug 66:69:4884  
Flow-Induced Vibrations--Experience of TVA  
with Hydraulic and Other Structures, James T.  
Price, CE:Apr 65:61

TR:131:245

Generalized Kelvin-Voigt Used in Soil Dynamics  
Study, Bobby O. Hardin and Gordon D. Scott,  
EM:1:Feb 66:143:4678

Nappe Oscillation, H. Ivan Schwartz, HY:6:Nov  
64:129:4138

TR:131:71

On the Shock Response of Inelastic Beams,  
Kenneth E. Blanchard and Albert B. Schultz,  
EM:5:Oct 65:27:4500

TR:131:655

Random Vibration of a Beam Column, Masanobu  
Shinozuka and L. Henry, EM:5:Oct 65:123:4510

TR:131:611

Resonance of Beams Due to Cyclic Moving  
Loads, Alois L. Schlack, Jr. and Theodore F.  
Raske, EM:6:Dec 66:175:5047

Sand Stiffness Under Various Triaxial Stresses,  
Bobby O. Hardin and William L. Black, SM:2:Mar  
66:27:4712

Vibration of a Radially Loaded Spherical Shell,  
Carl F. Long, EM:2:Apr 66:235:4788

Vibration of a Viscoelastic Timoshenko Beam,  
H. H. Pan, EM:2:Apr 66:213:4784

Vibration of Towers as Related to Wind Pulses,  
Arthur N. L. Chiu and Donald A. Sawyer, ST:5:  
Oct 64:137:4114

TR:131:108

Vibration Tests of a Nine-Story Steel Frame  
Building, N. Norby Nielson, EM:1:Feb 66:81:  
4660

Vibrations and Stability of Buckled Panels,  
Yao W. Chang and Ernest F. Masur, EM:5:  
Oct 65:1:4497

TR:131:755

**VISCOELASTICITY**

Vibration of a Viscoelastic Timoshenko Beam,  
H. H. Pan, EM:2:Apr 66:213:4784

**VISCOSITY**

Experimental Study of Two-Layered Flow  
Through a Sink, D. Grant Huber and T. L. Reid,  
HY:1:Jan 66:31:4618

**WALLS**

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, Morton H. Eligator, CE: Sept 66:62

New Jersey--Large free-standing wall in FAA hangar, CE:Nov 66:100

Water Leakage at Form Ties, P. Jackson, CE: Nov 66:74

**WAREHOUSES**

Cable-Supported Warehouse Roof Provides Large Open Area, Fred Fischer, Jr., CE:Sept 66:43

Dec, Walter H. Wheeler, CE:Dec 66:61  
Composite Design Cuts Cost of Small Warehouse, Edward B. Finkel, CE:Aug 65:46  
TR:131:469

**WASTE DISPOSAL**

The American Public Works Association to prepare courses for solid-waste personnel, CE: Aug 66:95

ASCE co-sponsors with U.S. Dept. of Agriculture Symposium on animal waste management, CE:Sept 66:53

Canning Wastes Complicate Treatment at San Jose-Santa Clara Water Pollution Control Plant, Frank M. Belick, CE:May 66:49

The Challenge of Solid-Waste Research, Ross E. McKinney, SA5:Oct 66:1:4924  
Compartmentalization of Aeration Tanks, William F. Milbury, Wesley O. Pipes, and Robert B. Grieves, SA3:Jun 65:45:4362  
TR:131:748

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Deep Well Waste Injection--Reaction with Aquifer Water, Don L. Warner, SA4:Aug 66: 45:4881

Environmental Hazards of Radioactive Wastes, Joe O. Ledbetter, SA1:Feb 65:59:4237  
TR:131:615

Evaluation of Two Aerated Lagoons, Ross E. McKinney and Henry H. Benjes, Jr., SA6: Dec 65:43:4589  
TR:131:842

Mixing and Dispersion Studies in San Francisco Bay, Thomas E. Bailey, Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66:23:4936

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Office of Solid Wastes established in Public Health Service, CE:Mar 66:104

An Oxidation Pond as a Tertiary Treatment Device, Raymond C. Loehr and Ralph L. Stephenson, SA3:Jun 65:31:4351  
TR:131:877

Production waste pumped underground, CE: May 66:92

Refuse-reclamation plant for St. Petersburg, Fla., CE:Oct 66:93

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

Scope of the Solid Waste Problem, Wesley E. Gilbertson, SA3:Jun 66:1:4833

Solid Waste Disposal Act passed by Congress, CE:Jan 66:93

Waste Water Disposal: San Joaquin Valley, California, Elmo W. Huffman, IR2:Jun 66:47: 4847

Wickenburg Sewage Treatment Plant--An Application of a New Process, J.E. Schaefer, CE:Nov 66:35

**WASTES**

American Water Works Association Annual Conference, CE:July 66:84

ASCE Co-sponsors with U.S. Dept. of Agriculture Symposium on animal waste management, CE:Sept 66:53

The Challenge of Solid-Waste Research, Ross E. McKinney, SA5:Oct 66:1:4924

Pennsylvania--Philadelphia dedicates new incinerator plant, CE:Sept 66:100

Two-Dimensional Infiltration and Wetting Fronts, Sadik Toksoz, Don Kirkham and E. Robert Baumann, IR3:Sep 65:65:4477

TR:131:514

**WATER**

American Water Works Association Annual Conference, CE:July 66:84

ASCE Irrigation & Drainage Division holds conference in Las Vegas, CE:Dec 66:72

Buffalo Section co-sponsors symposium on water, CE:Aug 66:82

Distribution System Equalizing Storage Hydraulics, M.B. McPherson and R. Prasad, HY6:Nov 66:151:4987

International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:Jul 66:33:4864

Korea--U.S. Bureau of Reclamation to aid Han River basin plan, CE:Apr 66:82

Surface Discharge of Horizontal Warm-Water Jet, Yuan Jen, Robert L. Wiegand, and Ismail Mobarek, PO2:Apr 66:1:4801

United Nations Bibliography on water available, CE:Feb 66:92

Waste Water Disposal: San Joaquin Valley, California, Elmo W. Huffman, IR2:Jun 66:47: 4847

**WATER CONSUMPTION**

Determination of Water Use by Phreatophytes and Hydrophytes, G.H. Hughes and Charles C. McDonald, HY2:Mar 66:63:4714

Effects of Competition on Efficiency of Water Use, Jay M. Bagley, IR1:Mar 65:69:4252

TR:131:547

Irrigation Water Requirements in Texas, Charles B. Thompson, IR3:Sep 64:17:4040

TR:131:200

**WATER DISTRIBUTION**

California--Water bond issue approved, CE: Aug 66:94

Effects of Competition on Efficiency of Water Use, Jay M. Bagley, IR1:Mar 65:69:4252

TR:131:547

Improved Design of Fluid Networks with Computers, Thomas A. Marlow, R. Logan Hardison, Henry Jacobson, and Gilbert E. Biggs, HY4: Jul 66:43:4866

**WATER DISTRIBUTION Continued**

Relationships Among Sprinkler Uniformity Measures, Jack G. Beale and David T. Howell, IR1:Mar 66:41:4720

Task Committee on water distribution analysis formed by Hydraulics Division, CE:Apr 66:38

**WATER FLOW**

Computer Analysis of Overland Flow, James R. Morgali and Ray K. Linsley, HY3:May 65:81:4325

TR:131:857

Dsc, Jan Zudhof, CE:July 66:69 on "Air barriers stop salt-water intrusion" (Do You Know That) CE:May 66:33

Economic Problem of Irrigation Canals: Seepage Losses, Alfredo Bandini, IR4:Dec 66:35:5034

Equilibrium Depth of Scour in Long Constrictions, Saburo Komura, HY5:Sept 66:17:4898

Experimental Study of Two-Layered Flow Through a Sink, D. Grant Huber and T.L. Reid, HY1:Jan 66:31:4618

Graphical Solution of Problems in Open-Channel Flow, Albert G. Mercer, CE:Aug 66:75

Injection well to protect ground water, CE:Mar 66:107

Irrational Flow Over Spillways of Finite

Height, John J. Cassidy, EM6:Dec 65:155:4591

TR:131:866

Large-Scale Roughness in Open-Channel Flow, John B. Herlich and Sam Shulits, HY6:Nov 64:203:4145

TR:131:386

River Flood Flows, Forecasts and Probabilities, Michael C. Quick, HY3:May 65:1:4312

TR:131:546

Solution of Highly Curvilinear Gravity Flows, Theodor S. Strelkoff, EM3:Jun 64:195:3950

TR:131:355

West Pakistan--Water-filled balloons control flow on Mangla Dam project, CE:Feb 66:92

Withdrawal from Two-Layer Stratified Flows, Donald R.F. Harleman and Rex A. Elder, HY4:Jul 65:43:4398

TR:131:764

**WATER HAMMER**

Water-Hammer Charts Including Fluid Friction, David Stephenson, HY5:Sept 66:71:4908

Water Hammer Resulting From Cavitating Pumps, M.R. Carstens and T.W. Hagler, Jr., HY6:Nov 64:161:4143

TR:131:277

**WATER LAW**

Implications of Water Rights for Engineers, Robert H. Marquis, IR1:Mar 66:49:4721

**WATER POLLUTION**

Canning Wastes Complicate Treatment at San Jose-Santa Clara Water Pollution Control Plant, Frank M. Belick, CE:May 66:49

Data Handling Systems in Water Pollution Control, Richard S. Green, Donald P. Dubois, and Clarence W. Tutwiller, SA1:Feb 66:55:4652

Estuarine Water Quality Management and Forecasting, Robert V. Thomann and Matthew J. Sobel, SA5:Oct 64:9:4116

TR:131:808

Federal Water Pollution Control Laboratories, David H. Howells, SA2:Apr 66:43:4758

Homogeneous Activated Sludge--Wastewater treatment at Lower Cost, H.S. Smith and Wayne L. Paulson, CE:May 66:56

Hydrology of Water Quality Dilution Requirements, Malcolm F. Kallus and Jack W. Keeley, SA5:Oct 66:7:4930

Lake Michigan--Cleanup deadline set for 1968, CE:Mar 66:106

A lawyer Looks at Stream Pollution, William Gross, CE:Apr 65:44

Dect B.F. Snow, CE:Aug 65:74

TR:131:243

Mathematical Model for Water Pollution Control Programs, Alvin S. Goodman and William E. Dobbins, SA6:Dec 66:1:5031

Missouri--Pollution Abatement Program for Kansas City, Glen J. Hopkins, CE:Sep 65:39

TR:131:571

National Symposium on Water Standards, Univ. of Michigan, July 19-22, CE:Sept 66:50

Orthokinetic Flocculation in Water Purification, Howard S. Harris, Warren J. Kaufman, and Ray B. Krone, SA6:Dec 66:5:5027

Reassessing an Old Problem--Acid Mine Drainage, Ralph Forges, Lowell A. Van Den Berg, and Dwight Ballinger, SA1:Feb 66:69:4654

Washington--Seattle's Record-Breaking Sewage-Treatment System, Fred E. Lange, CE:Mar 65:31

TR:131:151

Water Pollution Control Federation holds 39th annual conference, CE:Nov 66:96

Water Recreation and the Public Water Supply

Frank M. Stead, CE:Nov 66:54

What is Pollution? An Engineer's Viewpoint, Paul D. Haney, SA1:Feb 66:109:4659

**WATERPROOFING**

Waterproofing Below the Ground Line, Thaddeus R.L. Lazarr, CE:Jun 65:73

TR:131:400

**WATER QUALITY**

Dustfall as a Source of Water Quality Impairment, Richard E. Johnsen, August T. Rossano, and Robert O. Sylvester, SA1:Feb 66:245:4694

Effect of Backwash on Filter Effluent Quality, Robert L. Johnson and John L. Cleasby, SA1:Feb 66:215:4692

Estuarine Water Quality Management and Forecasting, Robert V. Thomann and Matthew J. Sobel, SA5:Oct 64:9:4116

TR:131:808

Folklore in Water Quality Standards, P.H. McGahey, CE:Jun 65:70

TR:131:412

Future Quantity and Quality of Colorado River Water, Raymond A. Hill, IR1:Mar 65:17:4244

TR:131:837

**WATER QUALITY Continued**

Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, C. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975

Hydrology of Water Quality Dilution Requirements, Malcolm F. Kallus and Jack W. Keeley, SA5:Oct 66:7:4930

Impoundment Destratification by Mechanical Pumping, William H. Irwin, James M. Symons, and Gordon G. Robeck, SA6:Dec 66:21:5032

Operating a Sea Water Barrier Project, Arthur E. Brington and Frederick D. Seares, IR1:Mar 65:117:4264

TR:131:636

Optimizing Sampling Intervals in Tidal Estuaries, Charles G. Gunnerson, SA2:Apr 66:103:4799

Orthokinetic Flocculation in Water Purification, Howard S. Harris, Warren J. Kaufman, and Ray B. Krone, SA6:Dec 66:95:5027

Predicting Temperatures in Rivers and Reservoirs, William H. Delay and John Seaders, SA1:Feb 66:115:4675

Progress in Waste Water Re-Use in Southern California, John D. Parkhurst, IR1:Mar 65:79:4253

TR:131:569

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

Salinity Problems and Management in River Systems, Arthur F. Pillsbury and Harry F. Blaney, IR1:Mar 66:77:4733

**WATER RECLAMATION**

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

**WATER RESOURCES**

ASCE Water Resources Engineering Conference, Denver, Colo., May 15-21, CE:Feb 66:46; Apr 66:66; Report, June 66:48

Analysis of attendance, Aug 66:42

Barkley Dam and Lock are dedicated, CE:Oct 66:92

California--Water bond issue approved, CE:Aug 66:94

Comprehensive River Stabilization, Walter C. Carey, WW1:Feb 66:59:4672

Determining Bank Storage of Lake Mead, Paul A. Rechar, IR1:Mar 65:141:4268

TR:131:639

Development of Ground Water in Hawaii,

Leslie J. Watson, HY6:Nov 64:185:4144

TR:131:401

Educational Requirements for Water Resource Engineers, Alfred R. Golze, PP2:May 64:7:3890

TR:131:606

Future Quantity and Quality of Colorado River Water, Raymond A. Hill, IR:Mar 65:17:4244

TR:131:837

Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, C. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975

HYDRO, a Computer Language for Water Resources Engineering, George Bugliarello et al, CE:Nov 66:69

Hydropower Project Output Optimization, Warren A. Hall and Theodore G. Roefs, PO1:Jan 66:67:4628

Implications of Water Rights for Engineers, Robert H. Marquis, IR1:Mar 66:49:4721

Irrigation in India: Past and Present, Asit K. Biswas, IR1:Mar 65:179:4277

TR:131:523

Kaweah River Water Rights Settlement by Purchase, Stanley M. Barnes, IR1:Mar 66:55:4729

National Symposium on Water Standards, Univ. of Michigan, July 18-22, CE:Sept 66:50

Nuclear Craters for Water Resources Development and Management, David K. Todd, CE:Jun 65:64

TR:131:329

Phreatophytes--Water Use and Potential Water Savings, Dean C. Muckel, IR4:Dec 66:27:5033

Planning Construction of Four-River Basin Project, Edwin W. Eden, Jr., IR3:Sept 66:1:4897

Principles for a Sound National Water Policy, CE:Dec 66:38

Quality Aspects of Waste Water Reclamation, Paul R. Bonderson, SA5:Oct 64:1:4104

TR:131:169

The Review Function in Water Resources Development, Edmund H. Lang, PO1:Jan 66:39:4622

A Revolution in the Water Resources Field, William Whipple, Jr., CE:Dec 65:63

Disc: Asit K. Biswas, CE:Apr 66:64

TR:131:750

The Ruhr and the Delaware, Allen V. Kneese, SA5:Oct 66:83:4950

Sequential Generation of Rainfall and Runoff Data, Ven Te Chow and S. Ramaseshan, HY4:Jul 65:205:4416

TR:131:696

Surveying and Mapping for Water Resource Planning, Kurt W. Bauer, SU1:Apr 64:1:3855

TR:131:19

Three dams approved for western Colorado, CE:May 66:96

Trend in Water Resources Education, Carl E. Kindsvater, PP2:May 64:1:3889

TR:131:369

U. S. Bureau of Reclamation announces 1966 construction program, CE:Jan 66:93

Use of Interrelated Records to Simulate

Streamflow, Leo R. Beard, HY5:Sep 65:13:4463

TR:131:559

Vermont Section co-sponsors with Univ. of Wisconsin a Water Resources Symposium, CE:Sept 66:82

Water for the World, M.D. Morris, William E. Wood, James J. Geraghty, James Gould,

Gordon R. Williams, Donald F. Othmer, Donald R. Lueder, Malcolm Firmie, Jr., and Arthur C. Ford, SA1:Feb 65:1:4220

TR:131:802

Water Recreation and the Public Water Supply, Frank M. Stead, CE:Nov 66:54

Water Resources Site Preservation on Federal Lands, Kenneth W. Sax, HY6:Nov 66:81:4976

**WATER RIGHTS**

Implications of Water Rights for Engineers, Robert H. Marquis, IR1:Mar 66:49:4721  
 Kaweah River Water Rights Settlement by Purchase, Stanley M. Barnes, IR1:Mar 66:55:4729

**WATERSHEDS**

Salinity Problems and Management in River Systems, Arthur F. Pillsbury and Harry F. Blaney, IR1:Mar 66:77:4733

**WATER SUPPLY**

Alabama--Paddle Wheels for Traction in a Swamp, CE:Dec 65:71  
 TR:131:691  
 California--California Water Project, Power Plans and Demands, Alfred R. Golze, CE:Feb 65:35  
 TR:131:100  
 California--Planning and Anchoring 12 Miles of Big Pipe for Santa Clara County, M.K. Harris, CE:Jun 65:61  
 TR:131:345  
 California--San Francisco appropriates funds for enlarged water supply, CE:Aug 66:97  
 California--San Luis Canal contract awarded, CE:Jan 66:96  
 California--Steel Pipe for South Bay Aqueduct, Alfred R. Golze, CE:Mar 65:36  
 TR:131:166  
 California's State Water Project on Schedule, Haywood G. Dewey, Jr., CE:Jan 66:48  
 Dac, Howard D. Greyber, CE:May 66:76;  
 Author's reply CE:May 66:76  
 Combination Water Systems for High-Rise Buildings, G.D. Testin, CE:Apr 65:65  
 TR:131:232  
 Contract awarded for Yuba River Project, CE:June 66:100; Work starts, July 66:88  
 Development of Ground Water in Hawaii, Leslie J. Watson, HY6:Nov 64:185:4144  
 TR:131:401  
 East Pakistan--Master Plan for Water and Power Development, Ernest M. Bowles, CE:Aug 65:56  
 TR:131:483  
 Florida--Water for Everglades Park from temporary canals, CE:May 66:93  
 For the Civil Engineer--A Leadership Challenge, C.R. Ownbey, CE:Nov 66:75  
 Hong Kong--Unique water-supply project, CE:Mar 66:103  
 Hydraulic Engineering Aspects of Water Quality Management, Rex A. Elder, Peter A. Krenkel, James M. Symons, C. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Orlob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975  
 Ice Core for a Pervious Earth Dam 350 Miles North of Arctic Circle, Robert A. Dudley, with Robert D. Buchanan and Howard Peoples, CE:Dec 66:48  
 International Hydrological Decade Program Abroad, Raymond L. Nace, HY4:Jul 66:33:4864

Mathematical Model for Water Pollution Control Programs, Alvin S. Goodman and William E. Dobbins, SA6:Dec 66:1:5031

New York--New water tunnel planned for New York City, CE:Sept 66:100  
 New York--Proposal to use Storm King Reservoir, CE:Jan 66:93  
 Perspective on Water Desalting, Milton S. Sachs, CE:Nov 66:66  
 South Vietnam--consulting engineers chosen for Saigon water supply system, CE:July 66:85  
 Spain--First clear water for Zaragoza, CE:Apr 66:81  
 Texas--Livingston Dam planned for Houston water supply, CE:Apr 66:82  
 Thailand--USBR team plans water project on Mekong River, CE:Sept 66:101  
 Venezuela--Consulting engineers chosen for Venezuelan Water Project, CE:June 66:100  
 Water Recreation and the Public Water Supply, Frank M. Stead, CE:Nov 66:54  
 Water Renovation--Some Advanced Treatment Processes, David G. Stephan, CE:Sep 65:46  
 TR:131:563  
 Water Supply for Saigon, Walter T. McPhee, CE:Sep 65:59  
 TR:131:426  
 What is Pollution? An Engineer's Viewpoint, Paul D. Haney, SA1:Feb 66:109:4659

**WATER TREATMENT**

Closed Loop Chlorination Control, Leo J. Carroll, SA2:Apr 66:51:4760  
 Design Aspects of Lompoc Water Treatment Plant, Charles H. Lawrence, SA6:Dec 64:81:4181  
 TR:131:275  
 Development of a New Type of Rapid Sand Filter, Raymond E. Heber, SA1:Feb 66:31:4649  
 Effect of Backwash on Filter Effluent Quality, Robert L. Johnson and John L. Cleasby, SA1:Feb 66:215:4692  
 Experimental Evaluation of Sand Filtration Theory, David M. Fox and John L. Cleasby, SA5:Oct 66:61:4941  
 Foam Separation for Water Clarification, Robert B. Grieves, SA1:Feb 66:41:4650  
 Folklore in Water Quality Standards, P.H. McGauhey, CE:Jun 65:70  
 TR:131:412  
 Free-Living Nematode Removal by Rapid Sand Filters, Ronald L. Peterson, R.S. Engelbrecht, and John H. Austin, SA1:Feb 66:229:4693  
 India--Calcutta legislates water and sanitation authority, CE:June 66:99  
 Perspective on Water Desalting, Milton S. Sachs, CE:Nov 66:66  
 Progress in Waste Water Re-Use in Southern California, John D. Parkhurst, IR1:Mar 65:79:4253  
 TR:131:569  
 Rational Aspects of Split Treatment Lime Softening, John L. Cleasby and James H. Dillingham, SA2:Apr 66:1:4755



## WATER TREATMENT Continued

Theory of Water Filtration, Thomas R. Camp, SA4:Aug 64:13990

TR:131:1

Water Recreation and the Public Water Supply, Frank M. Stead, CE:Nov 66:54

Water Renovation--Some Advanced Treatment Processes, David G. Stephan, CE:Sep 65:46

TR:131:563

Water Supply for Saigon, Walter T. McPhee, CE:Sep 65:59

TR:131:426

## WATER TUNNELS

California--Contracts for state water tunnels awarded, CE:Dec 66:83

New York--New water tunnel planned for New York City, CE:Sept 66:100

## WATERWAYS

Alabama--Tennessee-Tombigbee waterway economically justified by Corps of Engineers, CE:Dec 66:81

Barge Docks for Inland Waterways, William L. Horstman, WW4:Nov 64:99:4146

TR:131:703

Breakwater from No-Cost Fill in Flushing Bay, N. Y., Bogos Torikoglu, CE:July 66:58

Comprehensive River Stabilization, Walter C. Carey, WW1:Feb 66:59:4672

Control of Weeds Harmful to Water Uses in the West, F. Leonard Timmons, WW1:Feb 66:47:4645

Dec, Meyer F. Wiles, CE:Nov 66:78 on the dumping of raw sewage into the nation's waterways, item in Do You Know That Column, CE:Aug 66:23

Duplicate Locks for Illinois Waterway, William J. Santina and George B. Wesler, WW4:Nov 64:1:4118

TR:131:159

Experimental Research on Lock Hydraulic Systems, John P. Davis and Thomas E. Murphy, WW1:Feb 66:17:4643

Flexibility in Cylinder Groups Oscillated in Water, Alan D. K. Laird, WW3:Aug 66:69:4884

Florida--Water for Everglades Park from temporary canals, CE:May 66:93

Foreshore Protection, Lower Mississippi River, Rudolf Hertzberg, WW2:May 65:1:4305

TR:131:573

Generation of Wind Waves, Robert L. Wiegel and Ralph H. Cross, WW2:May 66:1:4816

High Lift Locks: Some Hydraulic Problems and Solutions, Ernest Pariset and André Gagnon, WW4:Nov 64:55:4131

TR:131:131

Influence of Soil Types on Stabilization of the Savannah River, William J. Wall, WW3:Aug 65:7:4430

TR:131:717

Laboratory Contributions to Channel Stabilization, Margaret S. Peterson, WW1:Feb 66:87:4673

Mechanism of Sand Movement on Coastal Dunes, Abdel-Latif A. Kadib, WW2:May 66:27:4817

Movable Bed Model for River Structure Design, Howard E. Christian, Warren J. Melleme, and Walter M. Cindler, WW3:Aug 66:45:4883

Nuclear Excavation of a Sea-Level Isthmian Canal, Luke J. Vortman, WW4:Nov 64:27:4129

TR:131:209

Principles For a Sound National Water Policy, CE:Dec 66:38

Snake River Bank Stabilization, Leland B. Jones, WW1:Feb 66:1:4642

Stability of Channels by Armoring, Dassel E. Hallmark and George L. Smith, WW3:Aug 65:117:4452

TR:131:796

Tidal Characteristics of Two Estuaries in Florida, William B. Stelzenmuller, WW3:Aug 65:25:4431

TR:131:545

Wave Hindcasts versus Recorded Waves, Stanley Jacobs, WW4:Nov 66:17:4983

## WATERWAYS EXPERIMENT STATION

Laboratory Contributions to Channel Stabilization, Margaret S. Peterson, WW1:Feb 66:87:4673

## WAVES

Diffraction of Ocean Waves About a Breakwater, Charles T. Morrow, WW3:Aug 66:25:4882

Flexibility in Cylinder Groups Oscillated in Water, Alan D. K. Laird, WW3:Aug 66:69:4884

Generation of Wind Waves, Robert L. Wiegel and Ralph H. Cross, WW2:May 66:1:4816

Model for Wave Motions in Axis-Symmetric Solids, Alfredo H. S. Ang and Johann H. Rainer, EM2:Apr 64:195:3878

TR:131:266

Ocean Wave Force Instrumentation, Thomas L. Russell, Volkmar Schoettle, and Robert G. Chown, WW4:Nov 66:1:4978

Shock-Induced Stress Wave Propagation in Sand, Ernest T. Selig and Eben Vey, SM3:May 65:19:4332

TR:131:125

Shock Waves in Granular Soil, Robert D. Stoll and Ibrahim A. Ebeldo, SM4:Jul 65:107:4406

TR:131:459

Spectral Analysis of Sand Waves, Carl F. Nordin, Jr. and James H. Algert, HY5:Sept 66:95:4910

Stability of an Overfall Founded on Permeable Soils, Subba Rao Cutti, HY3:May 66:37:4821

Unsteady Flow of Solid-Liquid Suspension, Don J. Wood and T. Y. Kao, EM6:Dec 66:117:5039

Viscoelastic Wave Interaction with Cylindrical Cavity, Isaac M. Daniel, EM6:Dec 66:25:4899

Wave Hindcasts versus Recorded Waves, Stanley Jacobs, WW4:Nov 66:17:4983

Wave-Induced Oscillations in Harbors, Frederic Raichlen and Arthur T. Ippen, HY2:Mar 65:1:4241

TR:131:83

Wave-Plan Analysis of Unsteady Flow in Closed Conduits, Don J. Wood, Robert G. Dorsch, and Charlene Lightner, HY2:Mar 66:83:4716

Wave Propagation in a Stress-Relaxing Bar, Robert D. Stoll and Milton S. Hess, EM5:Oct 66:25:4928



## WAVES Continued

Waves in a Smoothly Joined Plate and Half-Space, Jan D. Achenbach, Satya P. Keshava, and George Herrmann, EM2:Apr 66:113:4781

## WEIRS

Drop-Box Weir for Sediment-Laden Flow Measurements, Clifton W. Johnson, Howard D. Copp, and Roy E. Timney, HY3:Sept 66:165:4916  
Flow in Culverts and Related Design Philosophies, Fred W. Blaisdell, HY2:Mar 66:19:4704  
Hydraulic Efficiency in Culvert Design, Fred W. Blaisdell, HW1:Mar 66:11:4709  
Nappe Oscillation, H. Ivan Schwartz, HY6:Nov 64:129:4138

TR:131:71

New Type Weir Construction for Small Water-sheds, Neal E. Minshall and Ralph G. Spomer, IR1:Mar 65:11:4243

TR:131:189

Solution of Highly Curvilinear Gravity Flows, Theodor S. Strelkoff, EM3:Jun 64:195:3950  
TR:131:355

## WELDING

Aluminum Columns--High Capacities of Heat-Treated, Welded Members Been Underestimated?, Herman E. Reitman, CE:June 66:75

Continuous-Composite All-Welded Bridges, Martin C. Rissel, Arthur H. Redman and Theodore H. Karasopoulos, CE:Dec 66:42

Design Data for High-Yield-Strength Alloy Steel, Geerhard Haaijer, ST4:Aug 66:31:4887

Framing Connections for Square Structural Tubing, Richard N. White and Pen Jeng Fang, ST2:Apr 66:175:4782

Missouri--Arc Welding Speeds Construction of Springfield Office Building, Rudolph F. Fischl and Georg Klatte, CE:Feb 65:60

TR:131:133

Optimum Design of Constant-Depth Plate Girders, Reza Razani and George G. Goble, ST2:Apr 66:253:4787

Society members honored in James F. Lincoln Arc Welding Foundation Award Program, CE:Dec 66:80

Structural Welding Codes Revised, Arsham Amirikian, CE:July 66:34

Welded Connections for Space Frame Joints, Robert H. Goldsmith, ST5:Oct 64:63:4100

TR:131:712

Welded Steel Girders Selected for a Major Bridge after a Comparative Study, E. A. Stratton with K. K. Chen, CE:Feb 66:56

Welding Codes Updated, addenda issued to AWS Building Code and Bridge Specification, CE:May 65:69

TR:131:349

## WELLS

Analysis and Application of the Step-Drawdown Test, Donald H. Lennox, HY6:Nov 66:25:4967

Boundary Flow Considerations in the Design of Wells, Mostafa M. Soliman, IR1:Mar 65:159:4272  
TR:131:391

Exact Free Surface of Gravity Wells, Abdel-Aziz I. Kashef, HY4:Jul 65:167:4413

TR:131:798

Flow from Infiltration Basins to Drains and Wells, Jacob Bear and Carol Braester, HY3:Sept 66:115:4911

Graphical Determination of Confined Aquifer Parameters, George J. Kriz, Verne H. Scott, and Robert H. Burg, HY5:Sept 66:39:4899

Modified Solutions for Decreasing Discharge Wells, Mahmoud A. Abu-Zied, Verne H. Scott, and Gert Aron, HY6:Nov 64:145:4142

TR:131:707

Operating a Sea Water Barrier Project, Arthur E. Brington and Frederick D. Seares, IR1:Mar 65:117:4264

TR:131:636

Simplified Solution for Decreasing Flow in Wells, Gert Aron and Verne H. Scott, HY5:Sept 65:1:4459

TR:131:675

## WIND (Air Movement)

Analysis of High Guyed Towers, Ezra G. Odley, ST1:Feb 66:169:4671

An Engineering Appraisal of Hurricane Betsy, Melvin W. Jackson CE:Jan 66:37

Dec, Thomas J. Bowen, CE:May 66:76

Generation of Wind Waves, Robert L. Wiegel and Ralph H. Cross, WW2:May 66:1:4816

Large Radar Shield Fabricated at Ground Level, Paul Stetson, CE:June 66:42

Editor's Corr., CE:Aug 66:75

Mechanism of Sand Movement on Coastal Dunes, Abdel-Latif A. Kadib, WW2:May 66:27:4817

Surveying and Mapping Aspects, Storm Tide Protection, George M. Mayfield, SU1:Jan 66:1:4599

Vibration of Towers as Related to Wind Pulses, Arthur N. L. Chiu and Donald A. Sawyer, ST5:Oct 64:137:4114

TR:131:108

Wind Driven Water Currents, W. Douglas Baines and Douglas J. Knapp, HY2:Mar 65:205:4270

TR:131:788

Wind Loads on Basic Dome Shapes, F. J. Maher, ST3:Jun 65:219:4383

TR:131:103

Wind Loads on Dome-Cylinder and Dome-Cone Shapes, F. J. Maher, ST5:Oct 66:79:4933

## WORLD TRADE CENTER

New York--Consultant-contractor chosen for World Trade Center, CE:Apr 66:81

New York--Financial Agreement reached on Trade Center, CE:Sept 66:102

## ZONING

The Airport and its Approaches, James R. Carr and John R. Eva, AT2:Oct 65:39:4490

TR:131:593

Development of Space Launch Facilities, Bradley L. Baker, AT2:Nov 66:13:4961

History and Techniques of Modern Urban Planning, Wolfgang G. Roeseler, UP1:May 66:5:4810

# 1966 COMBINED NAME INDEX

## ABDEL-HADY, M.

Characteristics of Soil-Asphalt as a Rate Process, with Moreland Herrin, HW1:Mar 66:49:4719

## ABDUN-NUR, EDWARD A.

Designing Specifications--A Challenge, CO1:May 65:29:4315

Dsc: Archie N. Carter, CO1:Jan 66:81:4597; Paul F. Keim, CO1:Jan 66:81:4597; John D. Bristol, CO1:Jan 66:84:4597; Joseph Goldbloom, CO1:Jan 66:86:4597; F.H. Kellogg, CO1:Jan 66:88:4597; Silvio J. Spigelon, CO1:Jan 66:91:4597

Clo: CO3:Sept 66:78:4889

TR:131:604

Product Control and Incentives, CO3:Sept 66:25:4900

Dsc, SM4:Jul 66:116:4860, of "Quality Control of Compacted Earthwork", SM1:Jan 66:93:4623

## ABEGG, MARTIN G.

See Haaren A. Miklofsky, ST1:Feb 66:245:4680

## ABRAHAM, GERRIT

Horizontal Jets in Stagnant Fluid of Other Density, HY4:Jul 65:139:4411

Dsc: Loh-Nien Fan and Norman H. Brooks, HY2:Mar 66:423:4708; Richard J. Frankel and James D. Cumming, HY4:Jul 66:157:4859

## ABRAMS, JOEL I.

Research or Practice--Which Way to Go? (The Younger Viewpoint) with John B. Scalzi, CE:June 66:34

## ABU-ZIED, MAHMOUD A.

Modified Solutions for Decreasing Discharge Wells, with Verne H. Scott and Gert Aron, HY6:Nov 64:145:4142

TR:131:707

## ACHENBACH, JAN D.

Dynamic Response on Viscoelastic Subgrade, with Chin-teh Sun, EM5:Oct 65:61:4504

TR:131:602

Waves in a Smoothly Joined Plate and Half-Space, with Satya P. Keshava and George Herrmann, EM2:Apr 66:113:4781

## ACKERMANN, NORBERT L.

Salt-Water Interface Near a Fresh-Water Canal, with Pachern Sridurongkatum, HY6:Nov 64:97:4135

Dsc: Leonard Halpenny, HY3:May 65:384:4304; Paul Baumann, HY5:Sep 65:212:4464

Clo: HY2:Mar 66:353:4708

TR:131:38

Viscous and Boundary Effects on Virtual Mass, with Anat Arbhahbhirama, EM4:Aug 64:123:4014

Dsc: Frederic T. Mavis, EM1:Feb 65:178:4212; K.G. McConnell and D.F. Young, EM2:

Apr 65:88:4286

Clo: EM6:Dec 65:177:4549

TR:131:230

## ACKERS, PETER

Experiments on Small Streams in Alluvium, HY4:Jul 64:1:3959

Dsc: Thomas Blench, HY6:Nov 64:369:4130; Gerald Lacey, HY1:Jan 65:219:4192; Charles R. Neill, HY1:Jan 65:224:4192; K.V.H. Smith, HY1:Jan 65:225:4192; Claude Inglis, HY1:Jan 65:228:4192; J.R.D. Francis, HY1:Jan 65:232:4192; Muna El-Khudairy, HY2:Mar 65:331:4249; Per Bruun, HY2:Mar 65:333:4249; A.E. Bretting, HY2:Mar 65:341:4249; Francis M. Henderson, HY2:Mar 65:351:4249; P. Venkatraman and C. Venkatramiah, HY2:Mar 65:352:4249; Mushtaq Ahmad and A. Rehman, HY2:Mar 65:354:4249; T.M. Prus-Chacinski, HY2:Mar 65:363:4249; D.I.H. Barr, HY2:Mar 65:365:4249; D.G. McKinlay, HY2:Mar 65:369:4249; I.V. Egiazaroff, HY5:Sept 65:153:4464

Clo: HY2:Mar 66:329:4708

TR:131:373

## ADAMS, JOHN MIDDLETON

Memoir of, TR:131:885

## ADAMS, PETER F.

Dsc, with Theodore V. Galambos, ST2:Apr 66:411:4759, of "Importance of Strain Hardening in Plastic Design", ST4:Aug 65:23:4424

## ADLER, LAWRENCE

Tunnel Design in Massive Rocks, SM6:Nov 66:189:4889

## ADRIAN, DONALD D.

See John H. Nebiker, SA6:Dec 66:148:4996

## AHLBORN, GALE

See Robert Horonjeff, AT1:Apr 65:33:4301

## AHLVIN, RICHARD G.

Stress Repetitions in Pavement Design, with Donald N. Brown, AT2:Oct 65:29:4489

TR:131:782

See W.J. Turnbull, SM1:Jan 66:93:4623

## AIDUN, A. R.

See L.J. Goodman, SM1:Jan 65:143:4211

**ALBERGA, ALVYN C.**

Dsc, CO1:Jan 66:100:4597, of "CPM--As Complete Project Management", CO1:May 65:99:4324

**ALBERTSON, LELAND C., JR.**

See Gerald M. Sturman, ST6:Dec 66:141:5007

**ALBRECHT, ARLYN E.**

In Situ Measurement of Solids in Final Clarifiers, with Richard E. Wulschlegler and William J. Katz, SA1:Feb 66:183:4686  
Dsc: Richard I. Dick, SA5:Oct 66:117:4920

**ALBRECHT, RICHARD W.**

Preformed Elastic Expansion Joints for Highway Structures, CE:Dec 66:56

**ALDERMAN, FRANK E.**

Dsc, PP1:May 66:87:4804, of "Ethics and Municipal Engineers in Private Practice", PP2:Sept 65:1:4455

**ALDRICH, HARL P., JR.**

Precompression for Support of Shallow Foundations, SM2:Mar 65:5:4267

Dsc: Louis J. Goodman, SM4:Jul 65:242:4394;  
Rowland Richards, Jr., SM5:Sept 65:122:4457;  
N. E. Simons, SM6:Nov 65:115:4525  
Cio: SM3:May 66:91:4807

**ALDRIDGE, WELDON W.**

See John E. Breen, ST5:Oct 66:375:4922

**ALEXANDER, MYRL E.**

Dsc, CE:Jan 66:72, on rehabilitation of criminals

**ALEXANDER, WILLIAM D.**

Apollo-a Trip to the Moon--Symposium, (1) Vertical Assembly Building--Project Description, Organization and Procedures, CE:Jan 65:42

Dsc: E. M. T. Ryder, CE:Apr 65:80  
TR:131:11

**ALBERT, JAMES H.**

See Carl F. Nordin, Jr., HY5:Sept 66:95:4910

**ALI, IQBAL**

See Robert B. Banks, HY5:Sept 64:13:4022

**ALLEN, AUGUSTUS M.**

The Mobile Concept in Launch Facilities, AT2:Nov 66:3:4960

**ALLISON, STEPHEN V.**

Dsc, with Frederick L. Hotes, HY1:Jan 66:156:4596, of "Economics of Ground-Water Recharge", HY4:Jul 65:248:4418

**ALPERT, S. D.**

Virginia--Towers for a 500-kv Transmission Line, with J. D. Shaw, CE:Feb 65:52  
TR:131:123

**AL-SARRAF, SAHIB ZAKI**

Dsc, ST4:Aug 66:92:4871, of "Buckling of Elastically Restrained Columns", ST6:Dec 65:159:4574

**ALTSCHAEFFL, ADOLPH G.**

See Gerald A. Leonards, SM5:Sept 64:133:4049  
See Gerald A. Leonards, SM4:Jul 66:86:4860

**AMER, ABDEL-WAHAB M.**

Eliminating Waterlogging Caused by Canal Seepage, IR2:Jun 66:33:4840  
Dsc: Hammad Y. Hammad, IR4:Dec 66:98:4995; A. I. Kashef, IR4:Dec 66:100:4995  
Dsc, IR4:Dec 66:76:4995, of "Steady-State Theories for Drainage", IR1:Mar 66:19:4707

**AMIRIKIAN, ARSHAM**

Structural Welding Codes Revised, CE:Jul 66:34

**AMMANN, OTHMAR H.**

Verrazano-Narrows Bridge: Conception of Design and Construction Procedure, CO2:Mar 66:5:4741

**AMSTUTZ, MELVIN E.**

Dsc, CE:June 66:79, on planners who have no knowledge of planning

**ANAND, S. C.**

See Seng-Lip Lee, ST2:Apr 66:351:4786

**ANANTHARAMU, S.**

See K. T. Sundara Raja Iyengar, ST3:Jun 65:45:4359

**ANDERSEN, PAUL**

Temperature stresses in steel grain-storage tanks, CE:Jan 66:74

**ANDERSON, ALBERT E.**

Snow Loads for Roofs, CE:Jul 65:76  
TR:131:474

**ANDERSON, ARTHUR R.**

Quality Control for Precast Concrete Construction, CE:Mar 66:56

**ANDERSON, DAVID**

Dsc, with Peter M. Palmer, HY4:Jul 66:188:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123:4534

**ANDERSON, GRANT S.**

Small Parking Garages for Huge Los Angeles International Airport, CE:Aug 66:43

**ANDERSON, JAMES AYLOR**

Memoir of, TR:131:886

**ANDERSON, P. J.**

Storage Containers for Liquefied Natural Gas, with A. R. Khan, CE:Aug 65:65  
TR:131:516

**ANDERSON, ROBERT H.**

Two Degree-of-Freedom Elastoplastic Response, EM5:Oct 65:191:4524  
TR:131:581

- ANDREWS, EARLE T.**  
Elected President of ASCE, CE:Oct 66:68
- ANG, ALFREDO H. -S.**  
Analysis of Contained Plastic Flow in Plane Solids, with Goin N. Harper, EM5:Oct 64:397; 4113  
Dsc: Cheng Yi Yang, EM3:Jun 65:284;4348;  
Dragos A. Jurisic, EM3:Jun 65:286;4348  
Clo: EM3:Jun 66:97;4828  
TR:131:304  
Model for Wave Motions in Axi-Symmetric Solids, with Johann H. Rainer, EM2:Apr 64:195; 3878  
Dsc: Alexander P. Hrennikoff, EM5:Oct 64: 449;4093; Robert E. Ball, EM6:Dec 64:275; 4160  
Corr: Alexander P. Hrennikoff; EM1:Feb 65: 160;4212 (discussion withdrawn)  
Clo: EM1:Feb 66:185;4646  
TR:131:266  
See Daniel M. Brown, ST6:Dec 66:319;5016
- ANGELIN, STIG**  
Dsc, with Peter Larsen, HY4:Jul 66:201;4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123;4534
- ANSLEY, RALPH W.**  
Sediment Transport in Supercritical Flow, HY6:Nov 65:57;4533  
Dsc: David I. H. Barr and J. Graham Herbertson, HY5:Sept 66:210;4891; K. V. N. Sarma and Kyatsandra Seetharamiah, HY5: Sept 66:216;4891; N. K. Gupta, HY5:Sept 66: 218;4891
- ANTEBI, JOSEPH**  
Computer Analysis of the F-111 Wing Assembly, with Edwin C. Rossow, Indravadan K. Shah, and Jayant M. Shah, ST6:Dec 66:405;5020
- ANTONINO, RONALD A.**  
Joins editorial staff of CIVIL ENGINEERING, CE:Oct 66:82
- APMANN, R.P.**  
See D. A. Parsons, CE:Feb 65:66
- APPEL, CHARLES A.**  
See Irwin Remson, HY3:May 65:133;4330
- APPEL, DAVID L.**  
Pressure Pulsations in Flow Through Branched Pipes, with Yun-Sheng Yu, HY6:Nov 66:179;4988
- ARBHABHIRAMA, ANAT**  
See Norbert L. Ackermann, EM4:Aug 64:123; 4014
- ARCHER, ROBERT R.**  
Dsc, EM1:Feb 66:212;4646, of "Dynamic Instability of a Deep Spherical Shell", EM3:Jun 65: 233;4382
- ARCHIBALD, RAYMOND**  
Dsc, CE:July 66:70, on giving engineer-in-training status to all graduates  
Dsc, ST2:Apr 66:432;4759, of "Ultimate Strength Design for Highway Bridges", ST5:Oct 65:43;4499
- ARGAMAN, Y.**  
See M. Rebhun, SA5:Oct 65:37;4523
- ARGYROPOULOS, PRAXITELIS A.**  
Dsc, HY3:May 66:121;4805, of "The Hydraulic Jump as a Wall Jet", HY5:Sept 65:107;4822
- ARMSTRONG, HELEN C.**  
Dsc, CE:Feb 66:74, of Kenya and her need for engineers
- ARON, GERT**  
Analysis of Data from Stepwise Throttled Pump Test, with Verne H. Scott, HY6:Nov 66:95;4977  
Simplified Solution for Decreasing Flow in Wells, with Verne H. Scott, HY5:Sept 65:1;4459  
Corr: HY4:Jul 66:166;4859  
TR:131:675  
See Mahmoud A. Abu-Zied, HY6:Nov 64:145; 4142
- AU, LEWIS LI-TANG**  
Thermal-Shock Effects on a Space Vehicle, with Donald J. Trent, EM4:Aug 65:1;4425  
Dsc: William F. Burkart, EM3:Jun 66:106; 4828  
Clo: EM3:Jun 66:106;4828  
TR:131:525
- AU, TUNG**  
Heuristic Games for Structural Design, ST6: Dec 66:499;5026
- AUGUSTI, GUILIANO**  
Experimental Rotation Capacity of Steel Beam-Columns, ST6:Dec 64:171;4175  
Dsc: Maxwell G. Lay, ST3:Jun 65:296;4346  
Clo: ST1:Feb 66:464;4638  
TR:131:291
- AUSTIN, JOHN H.**  
See Ronald L. Peterson, SA1:Feb 66:229;4693
- AYRE, ROBERT S.**  
See Theodore R. Tauchert, EM6:Dec 65:91;4570
- AYYAR, T. S. R.**  
See Jagdish Narain, SM2:Mar 66:156;4701
- BABB, ALAN F.**  
Dsc, PO1:Jan 66:142;4598, of "Hydraulic Studies of Large Penstock Trifurcation", PO1: May 65:59;4334
- BABCOCK, CHARLES D.**  
Dsc, CE:Sept 66:81, on engineers helping to conserve natural resources

**BACON, VINTON W.**

Chicago's sanitary district superintendent undeterred by bomb attempt, CE:Oct 66:82  
 Manager and/or Engineer?, CE:May 66:58  
 Dsc, of assassination attempt, Edward J. Cleary, CE:Oct 66:67

**BAFFA, JOHN J.**

Dsc, SA5:Oct 66:129:4920, of "Federal Water Pollution Control Laboratories", SA2:Apr 66:43:4758

**BAGLEY, JAY M.**

Effects of Competition on Efficiency of Water Use, IR1:Mar 65:69:4252  
 Dsc: Henry C. Eagle, IR3:Sept 65:95:4453;  
 Asit K. Biswas, IR4:Dec 65:94:4550  
 Clo: IR3:Sept 66:53:4892  
 TR:131:547

**BAILEY, THOMAS E.**

Mixing and Dispersion Studies in San Francisco Bay, with Charles A. McCullough, and Charles G. Gunnerson, SA5:Oct 66:23:4936

**BAINES, W. DOUGLAS**

Wind Driven Water Currents, with Douglas J. Knapp, HY2:Mar 65:205:4270  
 Dsc: Erich J. Plate, HY5:Sept 65:322:4464;  
 David I. H. Barr, HY6:Nov 65:209:4527; Jan M. Jordaan, Jr., HY6:Nov 65:210:4527  
 Clo: HY4:Jul 66:130:4859  
 TR:131:788

**BAKER, BRADLEY L.**

Development of Space Launch Facilities, AT2: Nov 66:13:4961

**BAKER, ROBERT F.**

Materials Control and Test Procedures, CO3:Sept 66:17:4896

**BALIGH, ALY**

See Kamel F. Saad, IR2:Jun 65:51:4363

**BALLARD, WILSON T.**

Dsc, CE:Dec 66:61 of "The Systems Approach to Traffic Safety," CE:Sept 66:40

**BALLINGER, DWIGHT**

See Ralph Porges, SA1:Feb 66:69:4654

**BALLOFFET, ARMANDO**

Hydraulic Studies of Jamaica Bay, with Arnold Kupferman, HY6:Nov 64:63:4133  
 Dsc: Giulio Supino, HY3:May 65:382:4304;  
 J. J. Dronkers, HY5:Sept 65:204:4464; A. R. Halliwell, HY5:Sept 65:205:4464  
 Clo: HY2:Mar 66:351:4708; HY3:May  
 TR:131:255

**BANDINI, ALFREDO**

Economic Problem of Irrigation Canals: Seepage Losses, IR4:Dec 66:35:5034

**BANKS, ROBERT B.**

Dispersion and Adsorption in Porous Media Flow, with Iqbal Ali, HY5:Sept 64:13:4022

Dsc: Donald R. F. Harleman and Uri Shamir, HY3:May 65:330:4304  
 TR:131:690

**BANTEL, EDWARD CHRISTIAN HENRY**

Memoir of, TR:131:887

**BARBARITO, BRUNO**

Dsc, ST1:Feb 66:479:4638, of "Influence Lines for Beams on Elastic Foundations", ST3:Jun 65:45:4359

**BARBER, DEAN A.**

See Ralph W. Spencer, PO3:Oct 64:105:4087

**BARDEN, LAING**

Consolidation of Normally Consolidated Clay, with Peter L. Berry, SM5:Sept 65:15:4481  
 Dsc: Robert E. Paaswell, SM2:Mar 66:197:4701; Gerald P. Raymond, SM4:Jul 66:82:4860;  
 P. N. Sundaram, SM4:Jul 66:83:4860; Gerald A. Leonards and A. G. Altschaeffl, SM4:Jul 66:86:4860  
 The Use of Free Ends in Triaxial Testing of Clays, with J. W. McDermott, SM6:Nov 65:1:4535  
 Dsc: R. J. Chandler, SM4:Jul 66:98:4860

**BARIBEAU, BENOIT**

Canada--Hydro Development of the Manicouagan and Outardes Rivers in Quebec, CE:Dec 65:53  
 TR:131:744

**BARKER, CHARLES L.**

Dsc, SM1:Jan 66:180:4594, of "Criteria for Acceptability of Papers: Report of the Committee on Publications of the Soil Mechanics and Foundations Division", SM3:May 65:51:4326

**BARKER, RICHARD M.**

Dsc, ST3:Jun 66:296:4831, of "Strength of Reinforced Concrete Folded Plate Models", ST1:Feb 66:351:4688

**BARNES, IVAN**

Dsc, SA6:Dec 66:152:4986, of "Oxidation of Coal Mine Pyrite", SA2:Apr 66:127:4802

**BARNES, STANLEY M.**

Kaweah River Water Rights Settlement by Purchase, IR1:Mar 66:55:4729  
 Dsc: Myron B. Holburt, IR4:Dec 66:91:4985

**BARON, MELVIN L.**

Particle-in-Cell Method in Shock Propagation Problems, with Charles E. Christian and Oleg Skidan, EM6:Dec 66:205:5049

**BARR, DAVID I. H.**

Dsc, HY6:Nov 66:226:4959, of "Bed Forms Due to a Fluid Stream", HY2:Mar 66:127:4724  
 Dsc, HY1:Jan 66:125:4596, of "Capacity Tests in Large Concrete-Lined Canals", HY3:May 65:189:4337  
 Dsc, with Alan A. Smith, HY2:Mar 66:387:4708, of "Critical Analysis of Open-Channel Resistance", HY4:Jul 65:1:4387

- BARR, DAVID I. H.** Continued  
 Dsc, HY6:235:4959, of "Diffusion of Sediment in a Submerged Jet", HY2:Mar 66:153:4726  
 Dsc, with John G. Herbertson, HY6:Nov 66:257:4959, of "Hydraulic Resistance of Alluvial Streams", HY2:Mar 66:315:4739  
 Dsc, PO1:Jan 66:143:4508, of "Hydraulic Studies of Large Penstock Trifurcation", PO1:May 65:59:4334  
 Dsc, with J. Graham Herbertson, HY5:Sept 66:210:4891, of "Sediment Transport in Supercritical Flow", HY6:Nov 65:57:4533  
 Dsc, with John G. Herbertson, HY6:Nov 66:248:4959, of "Sediment Transportation Mechanics: Initiation of Motion", by the Task Committee on Preparation of Sedimentation Manual, ASCE, HY2:Mar 66:291:4738  
 Dsc, HY2:Mar 66:413:4708, of "Spurious Correlation in Hydraulics and Hydrology", HY4:Jul 65:35:4393  
 See J. G. Herbertson, HY2:Mar 66:441:4708  
 See Alan A. Smith, HY4:Jul 66:195:4859
- BARROWS, WILBUR R.**  
 Value of Pumped Storage in a Thermal System, PO1:Jan 66:29:4619  
 Dsc: Lawrence M. Robertson, PO2:Apr 66:52:4763
- BARTHOLOMEW, HARLAND**  
 Metropolitan Transportation Problem, UP1:Jul 65:7:4391  
 Dsc: Sergei N. Grimm, UP1:May 66:87:4806; Robert L. McFall, UP1:May 66:91:4806
- BARTLEY, THOMAS R.**  
 See Francis J. Guscio, WW4:Nov 65:47:4537
- BASS, LOUIS O.**  
 Texas--Unusual Dome Awaits Baseball Season in Houston, CE:Jan 65:63  
 Dsc: R. S. DiSalvo, CE:Mar 65:64  
 TR:131:47
- BATTERMAN, STEVEN C.**  
 Dsc, EM1:Feb 66:209:4646, of "Buckling Behavior of an Inelastic Columns", EM3:Jun 65:113:4372
- BAUER, HELMUT F.**  
 Response of Liquid in a Rectangular Container, EM6:Dec 66:1:4993
- BAUER, KURT W.**  
 Engineering Principles of Urban Transportation Planning, HW2:Dec 65:1:4559  
 TR:131:821  
 Surveying and Mapping for Water Resource Planning, SU1:Apr 64:1:3855  
 Dsc: Richard R. Mayer, SU1:Apr 65:60:4280; Daniel Kennedy, SU1:Apr 65:60:4280; Max Suter, SU1:Apr 65:61:4280  
 Clo: SU2:Sept 65:65:4462  
 TR:131:19
- BAUER, WILLIAM J.**  
 Dsc, HY2:Mar 66:373:4708, of "Boundary Layer Development and Spillway Energy Losses", SM3:May 65:149:4331
- BAUMANN, E. ROBERT**  
 See Sadik Toksoz, IR3:Sep 65:65:4477
- BAYARD, ROBERT P.**  
 See Hal W. Hunt, CO1:Jan 66:1:4604
- BAZANT, ZDENEK P.**  
 Conjugate Analogy of Space Structures, ST3:Jun 66:137:4849  
 Dsc, ST1:Feb 66:489:4638, of "Creep Buckling of Slender Columns", ST3:Jun 65:127:4369
- BEAGLE, CHARLES W.**  
 New Jersey--A Revolution in Sewer Maintenance at Woodbridge, CE:Mar 65:34  
 TR:131:141
- BEALE, JACK G.**  
 Relationships Among Sprinkler Uniformity Measures, with David T. Howell, IR1:Mar 66:41:4720  
 Dsc: Jerald E. Christiansen, IR3:Sept 66:83:4892; M. J. Hall, IR4:Dec 66:88:4995
- BEAM, CARL E.**  
 Former staff member dies, CE:May 66:47
- BEAR, JACOB**  
 Flow from Infiltration Basins to Drains and Wells, with Carol Braester, HY5:Sept 66:115:4911  
 Moving Interface in Coastal Aquifers, with Gedeon Dagan, HY4:Jul 64:193:3988  
 Dsc: Donald R. F. Harleman and Ralph R. Rumer, Jr., HY2:Mar 65:384:4249  
 Clo: HY6:Nov 65:167:4527  
 TR:131:598
- BEARD, LEO R.**  
 Use of Interrelated Records to Simulate Streamflow, HY5:Sept 65:13:4463  
 Dsc: W. Don Maughan and Theodore G. Roefs, HY2:Mar 66:445:4708  
 Clo: HY4:Jul 66:166:4859  
 TR:131:559
- BEATON, JOHN L.**  
 Dsc, with Richard F. Stratfull, HW2:Oct 66:128:4919, of "Philosophy of Service Life in Culvert Design", HW1:Mar 66:1:4705
- BEAUFAIT, FRED W.**  
 Analysis of Continuous Folded Plate Surface, ST6:Dec 65:117:4555  
 Dsc: Ti-Ta Lee, ST2:Apr 66:447:4759; Alexander C. Scordelis and Kam-Shing Lo, ST3:Jun 66:281:4831; Morris N. Fialkow, ST4:Aug 66:91:4871; Anatol A. Eremin, ST4:Aug 66:92:4871  
 Experimental Analysis of Continuous Folded Plates, with George A. Gray, ST1:Feb 66:11:4661
- BECK, ARTHUR N.**  
 See Francis J. Guscio, WW4:Nov 65:47:4537

- BECK, CHARLES F.**  
Computer Analysis of Towers Verified by Testing, with Max Zar, ST6:Dec 66:361:5018
- BECKER, ERIC**  
See Egor P. Popov, ST5:Oct 64:1:4069
- BEEDLE, LYNN S.**  
See John W. Fisher, ST5:Oct 65:129:4511
- BEECHAN, OGDEN**  
Dsc, WW4:Nov 66:57:4957, of "Laboratory Contributions to Channel Stabilization", WW1:Feb 66:87:4673
- BEER, CHARLES G.**  
Factors Considered in Urban Transportation Planning, HW2:Dec 65:51:4582  
TR:131:874
- BEHLKE, CHARLES E.**  
Dsc, with Harold D. Pritchett, HY:Sept 66:253:4891, of "Flow Visualization Across Main Flow", HY1:Jan 66:65:4626
- BETTINJANI, KHALIL I.**  
A Study on Refraction of Waves in Prismatic Channels, with Ernest F. Brater, WW3:Aug 65:37:4434  
Dsc: Robert C. Y. Koh, WW1:Feb 66:136:4639  
Clo: WW3:Aug 66:90:4872
- BELCHER, DONALD J.**  
Dsc, CO1:Jan 66:96:4597, of "Arecibo Radar-Radio Telescope--Design and Construction", CO1:May 65:69:4323
- BELICK, FRANK M.**  
Canning Wastes Complicate Treatment of San Jose-Santa Clara Water Pollution Control Plant, CE:May 66:49
- BELL, JAMES M.**  
Dimensionless Parameters for Homogeneous Earth Slopes, SM5:Sept 66:51:4904
- BELLPORT, B. P.**  
Colorado--Reclamation Firsts: Underground Power Plant at Morrow Point Dam, CE:Feb 65:40  
TR:131:105
- BENEDICT, PAUL C.**  
See Rex A. Elder, HY6:Nov 66:61:4975
- BENJAMIN, JACK R.**  
Dsc, EM1:Feb 66:213:4646, of "Analog Simulations of Earthquake Motion", EM5:Oct 65:173:4522  
Dsc, ST3:Jun 66:293:4831, of "The Analysis of Structural Safety", ST1:Feb 66:267:4682
- BENJES, HENRY H., JR.**  
See Ross E. McKinney, SA6:Dec 65:43:4589
- BENSON, MANUEL A.**  
Effect of Floods and Obsolescence on Bridge Life, with N. C. Matalas, HW1:Jan 65:55:4208  
Dsc: David C. Colony, HW2:Dec 65:150:4548  
Clo: HW2:Oct 66:107:4919  
TR:131:830  
Spurious Correlation in Hydraulics and Hydrology, HY4:Jul 65:35:4393  
Dsc: Charles R. Neill, HY6:Nov 65:248:4527; M. V. Yevjevich, HY2:Mar 66:410:4708; Chesley J. Posey, HY2:Mar 66:413:4708; David I. H. Barr, HY2:Mar 66:413:4708  
Clo: HY6:Nov 66:204:4959
- BENVENISTE, JACQUES E.**  
A Study of Mechanisms with Application to Frames, EM1:Feb 65:19:4222  
Dsc: Ferdinand Freudenstein, EM5:Oct 65:225:4495  
Clo: EM3:Jun 66:100:4828  
TR:131:446
- BEN-ZVI, A.**  
Dsc, with B. Z. Kinori, HY5:Sept 66:292:4891, of "Abstracted Bibliography on Erosion of Cohesive Materials", HY2:Mar 66:243:4746
- BERGSTROM, RICHARD N.**  
Has Nuclear Power Become Competitive?, CE:Feb 65:32  
TR:131:96  
Latest Developments in Transporting Coal by Rail, with Kenneth W. Hamming, PO1:May 65:81:4338  
TR:131:681
- BERNSTEIN, LEON**  
Dsc, with C. A. Bower, IR4:Dec 66:97:4995, of "Salinity Problems and Management in River Systems", IR1:Mar 66:77:4733
- BERRY, DONALD S.**  
Technological Aspects of Urban Transportation, with Paul W. Shuldiner, HW1:Jan 64:53:3768  
Dsc: Shu-t'ien Li, HW2:Aug 64:27:3997; Wilbur S. Smith, HW1:Jan 65:70:4185  
Corr: HW2:Dec 65:131:4548  
TR:131:205
- BERWANGER, CARL**  
Limit Design by Successive Moment Distribution, ST1:Feb 66:405:4691  
Dsc: M. Z. Cohn, ST4:Aug 66:108:4871, Anatol A. Eremim, ST5:Oct 66:383:4922  
Dsc, EM5:Oct 66:148:4921, of "Equilibrium Method for Limit Calculation of Frames, EM1:Feb 66:166:4697
- BESPALOW, EUGENE F.**  
Dsc, CE:Feb 66:74, on "Representation on the Board of Direction" (The Younger Viewpoint)  
CE:Dec 65:80  
Dsc, Harold A. Hagestad, May 66:74
- BERTERO, VITELMO V.**  
Effect of Large Alternating Strains on Steel Beams, with Egor P. Popov, ST1:Feb 65:1:4217



**BERTERO, VITELMO V.** Continued

Dsc: Maxwell G. Lay, ST4:Aug 65:248:4432;  
 Anatol A. Eremin, ST5:Oct 65:356:4498; F. J.  
 Beer, ST5:Oct 65:356:4498  
 Clo: ST2:Apr 66:394:4759  
 TR:131:481

**BESTOR, GEORGE C.**

Dsc, UP1:May 66:94:4806, of "Aesthetic Design  
 of Electric Distribution Lines", UP1:Jul 65:31:  
 4400

**BETTERSWORTH, THOMAS A.**

Aesthetic Design of Electric Distribution Lines,  
 UP1:Jul 65:31:4400

Dsc: E. A. Roberts, UP1:May 66:92:4806;  
 John A. Roling, Jr., UP1:May 66:92:4806;  
 Albert R. Waehner, UP1:May 66:94:4806;  
 George C. Bestor, UP1:May 66:94:4806; Rob-  
 ert F. Lawrence, UP1:May 66:96:4806; Her-  
 man Halperin, UP1:May 66:97:4806

**BETZ, JACK M.**

Dsc, with Robert P. Stearns, SA3:Jun 66:17:  
 4830, of "Simulation and Analyses of a Refuse  
 Collection", SA5:Oct 65:17:4491

**BETZ, MATTHEW J.**

Interpretation of Costs, HW2:Oct 66:49:4937

**BEVERAGE, JOSEPH P.**

Hyperconcentrations of Suspended Sediment,  
 with James K. Culbertson, HY6:Nov 64:117:4136

Dsc: Theodore T. Williams, HY3:May 65:  
 385:4304; Charles D. D. Howard, HY3:May 65:  
 386:4304; E. V. Richardson and T. F. Hanly,  
 HY5:Sept 65:215:4464; Kenneth N. Phillips,  
 HY5:Sept 65:220:4464  
 Clo: HY2:Mar 66:356:4708  
 TR:131:430

**BHATLA, MANMOHAN N.**

Role of Protozoa in the Diphasic Exertion of  
 BOD, with Anthony F. Gaudy, Jr., SA3:Jun 65:  
 63:4371

Dsc: Ross E. McKinney, SA5:Oct 65:82:4492;  
 Arthur W. Busch, SA6:Dec 65:62:4546  
 Clo: SA3:Jun 66:11:4830  
 TR:131:507

**BHAVNAGRI, VIRAF S.**

Flood Proofing in a Flood Plain: A Stochastic  
 Model, with George Bugliarello, HY4:Jul 66:63:  
 4868

**BIEHN, F. O.**

Florida--The Cross-Florida Barge Canal  
 Under Construction, CE:May 65:48  
 TR:131:371

**BIGGS, GILBERT E.**

See Thomas A. Marlow, HY4:Jul 66:43:4866

**BILLINGTON, DAVID P.**

Analysis of Four-Legged Tower for Dynamic  
 Loads, with William S. Gaither and Alan M.  
 Ebner, EM2:Apr 66:61:4769

See David G. Elms, EM4:Aug 65:69:4441

See Arthur W. Hedgren, Jr., ST1:Feb 66:223:  
 4679

**BINGER, WILSON V.**

Dsc, SM2:Mar 66:167:4701, of "Role of the  
 "Calculated Risk" in Earthwork and Foundation  
 Engineering", SM4:Jul 65:1:4390

**BINNIE, GEOFFREY M.**

Dsc, SM1:Jan 66:189:4594, of "Role of the  
 "Calculated Risk" in Earthwork and Foundation  
 Engineering", SM4:Jul 65:1:4390

**BIRKNER, FRANCIS B.**

See James J. Morgan, SA6:Dec 66:137:4996

**BISHOP, A. ALVIN**

Total Bed Material Transport, with Daryl B.  
 Simons and Everett V. Richardson, HY2:Mar 65:  
 175:4266

Dsc: R. Sakthivadivel, HY6:Nov 65:201:  
 4527; David I. H. Barr, HY6:Nov 65:203:4527  
 Clo: HY3:May 66:86:4805

TR:131:471  
 See Yu-Si Fok, IR1:Mar 65:99:4259

**BISWAS, ASIT K.**

Hydroelectric Developments in the Scottish  
 Highlands, PO1:May 65:23:4318

Dsc: Edward M. Gosschalk, PO1:Jan 66:138:  
 4598; Ian B. Mackintosh, PO1:Jan 66:139:4598  
 The Hydrologic Cycle, CE:Apr 65:70  
 Dsc: by author, CE:Sep 65:73

TR:131:273  
 Hydropower Developments in India, PO2:Apr  
 66:31:4777

Irrigation in India: Past and Present, IR1:  
 Mar 65:179:4277

Dsc: Gerald Lacey, IR4:Dec 65:123:4550;  
 Claude C. Inglis, IR4:Dec 65:128:4550; A. M. R.  
 Montagu, IR4:Dec 65:129:4550  
 Clo: IR2:Jun 66:94:4829

TR:131:523  
 Dsc, PPI:May 66:70:4804, of "Civil Engineer-  
 ing Education That Is", PP2:Sept 65:49:4478

Dsc, HY3:May 66:109:4805, of "Comprehensive  
 Planning in the Southeast", HY5:Sept 65:81:4480

Dsc, SM1:Jan 66:178:4594, of "Criteria for  
 Acceptability of Papers: Report of the Committee  
 on Publications of the Soil Mechanics and Founda-  
 tions Division", SM3:May 65:51:4326

Dsc, PPI:May 66:68:4804, of "A Critique of  
 Engineering Education", PP2:Sept 65:7:4461

Dsc, HY2:Mar 66:416:4708, of "Environmental  
 Effects of Flood Plain Regulations", HY4:Jul 65:  
 59:4402

Dsc, PO1:Jan 66:134:4598, of "Evaluation of  
 Recreation in Water Developments", PO1:May  
 65:1:4306

Dsc, SA2:Apr 66:179:4754, of "How to Plan an  
 Inconsequential Research Project", SA4:Aug 65:  
 19:4437

Dsc, CE:Apr 66:64, of "A Revolution in the  
 Water Resources Field", CE:Dec 65:63

Dsc, IR3:Sept 66:74:4892, of "Role of Govern-  
 ment in Water Resource Development", IR4:Dec  
 65:13:4558

**BISWAS, ASIT K. Continued**

Dsc, HY3:May 66:100:4805, of "Sedimentation Aspects in Recreating Planning", HY5:Sept 65:51:4473

**BIXBY, THOMAS P.**

Influence of Modern Construction Equipment on San Luis Dam, CE:Nov 66:60

**BJERRUM, LAURITS**

Measuring Instruments for Strutt Excavations, with Theodore C. Kenney and B. Kjaernsli, SM1:Jan 65:111:4210

Dsc: Hugh Q. Golder, SM5:Sep 65:116:4457

W. H. Ward, SM6:Nov 65:114:4525

Clo: SM4:Jul 66:72:4860

TR:131:568

**BLACK, JARED L.**

Dsc, CE:Nov 66:77 on Professional Schools Granting Professional Degrees. CE:July 66:61 See Ronald E. Nece, HY1:Jan 66:43:4620

**BLACK, WILLIAM L.**

See Bobby O. Hardin, SM2:Mar 66:27:4712

**BLAISDELL, FRED W.**

Flow in Culverts and Related Design Philosophies, HY2:Mar 66:19:4704

Dsc: Frederic T. Mavis, HY5:Sept 66:261:4891; Charles R. Neill, HY5:Sept 66:268:4891

Dasel E. Hallmark, HY5:Sept 66:270:4891

Hydraulic Efficiency in Culvert Design, HW1:Mar 66:11:4709

Dsc, HY6:Nov 66:263:4959, of "Abstracted Bibliography on Erosion of Cohesive Materials", by the Task Committee on Erosion of Cohesive Materials, Committee on Sedimentation, ASCE, HY2:Mar 66:243:4746

Dsc, HY4:Jul 66:179:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY4:Nov 65:123:4534

See Charles A. Donnelly, HY3:May 65:101:4328

**BLAKEY, LEWIS H.**

Structural Design of Large Space Chambers, AT2:Nov 66:29:4962

**BLANCHARD, KENNETH E.**

On the Shock Response of Inelastic Beams, with Albert B. Schultz, EM5:Oct 65:27:4500 TR:131:655

**BLANEY, HARRY F.**

See Arthur F. Pillsbury, IR1:Mar 66:77:4733

**BLANEY, HARRY F., SR.**

Dsc, HY5:Sept 66:271:4891, of "Determination of Water Use by Phreatophytes and Hydrophytes", HY2:Mar 66:63:4714

**BLEICH, HANS H.**

Dsc, EM3:Jun 66:115:4828, of "Edge Load Solutions for Conical Shells", EM1:Feb 66:37:4657

See Morton B. Friedman, EM3:Jun 65:189:4377

See Rene B. Testa, EM2:Apr 66:131:4783

**BLENCH, THOMAS**

River Hydrology, or Fluviology, for Engineers, CE:Nov 66:56

Dsc, HY2:Mar 66:448:4708, of "Parametric Hydrology and Stochastic Hydrology: Report of the Committee on Surface Water Hydrology", HY6:Nov 65:119:4539

Dsc, HY5:Sept 66:287:4891, of "Sediment Transportation Mechanics: Initiation of Motion", HY2:Mar 66:291:4738

**BLIGHT, GEOFFREY E.**

Shear Stress Pore Pressure in Triaxial Testing, SM6:Nov 65:25:4540

Dsc: Jagdish Narain and Bhawani Singh,

SM4:Jul 66:101:4860

Strength Characteristics of Desiccated Clays, SM6:Nov 66:19:4966

**BLISS, JOHN H.**

Dsc, IR4:Dec 66:96:4995, of "Salinity Problems and Management in River Systems", IR1:Mar 66:77:4733

**BLOEM, DELMAR L.**

How to Get Good Concrete, CE:Mar 66:66

**BLOMME, GEORGE W., CHMN.**

Terminal Planning For Future Highways; Progress Report of the Committee on Terminals, Highway Division, ASCE, HW2:Oct 66:61:4944

**BLOMQUIST, HERBERT T.**

See Alfred H. Palmer, CE:Feb 65:50

**BLOODGOOD, DON E.**

See Ronald F. Wukasch, SA2:Apr 66:59:4761

**BLOSS, ERWIN E.**

Design Criteria for Interceptor Sewers for St. Louis, SA4:Aug 66:7:4877

**BLYTHE, DAVID K.**

Dsc, CE:Sept 66:81 on "World Organization of Engineers," June 66:37

**BOELTER, L. M. K.**

See Melville C. Branch, UP1:May 66:53:4827

**BOGARDI, JOHN L.**

European Concepts of Sediment Transportation, HY1:Jan 65:29:4195

Dsc: Johan A. Zwamborn, HY5:Sep 65:267:4464; I. V. Eglazaroff, HY5:Sep 65:269:4464

David I. H. Barr, HY5:Sep 65:274:4464

TR:131:860

**BOGDANOFF, JOHN L.**

See Arnold L. Sweet, EM2:Apr 65:21:4292

**BOGEN, SAMUEL A.**

See Hal W. Hunt, CO1:Jan 66:1:4604

**BOGGS, EDWARD W.**

Dsc, SM4:Jul 66:90:4860, of "Michigan Study of Pile Driving Hammers", SM5:Sept 65:37:4483

**BONAZZI, DARIUS**

Alluvium Grouting Proved Effective on Alpine Dam, SM6:Nov 65:81:4544

Dsc: John P. Gnaedinger, SM4:Jul 66:111:4860

**BONDERSON, PAUL R.**

Quality Aspects of Waste Water Reclamation, SA5:Oct 64:1:4104

Dsc: Harvey F. Ludwig and Joseph L. Feeney, SA1:Feb 65:100:4213; George A. Whetstone, SA3:Jun 65:124:4353

There will be no closure: SA2:Apr 66:4754

**BONDURANT, DONALD C.**

Sedimentation Aspects in Recreation Planning, with Robert H. Livezey, HY5:Sep 65:51:4473

Dsc: Albert L. Hill, HY3:May 66:100:4805; Asit K. Biswas, HY3:May 66:100:4805

**BOOTH, WELDON S.**

Tie-Backs in Soil Open Building Area for Unobstructed Deep Excavation, CE:Sept 66:46

**BORCHARD, EDWIN KENNEL**

Memoir of, TR:131:888

**BORCHARDT, JACK A.**

See Eric Davis, SA5:Oct 66:47:4940

**BORG, ROBERT F.**

Changed Conditions Clause in Construction Contracts, CO2:Sep 64:37:4035

Dsc: Bayard F. Snow, CO1:May 65:195:4309; Paul F. Kelm, CO1:May 65:196:4308; Hunter W. Hanly, CO1:May 65:198:4309; John D. Bristol, CO1:May 65:198:4309; Robert J. Piper, CO1:May 65:201:4309; J. Burch McMorran, CO1:May 65:202:4309; Robert B. Jarvis, CO1:May 65:203:4309; Gerard M. Gaussa, CO1:May 65:204:4309  
Clo: CO1:Jan 66:78:4597  
TR:131:118

**BORG, SIDNEY F.**

Heat Analysis - A Tensorial-Dimensional Approach, EM6:Dec 65:145:4584  
TR:131:825

**BORGMAN, LEON EMRY**

Wave Forces on Piling for Narrow-Band Spectra, WW3:Aug 65:65:4443

Dsc: Donald R. Wells, WW1:Feb 66:138:4639  
There will be no closure: WW3:Aug 66:4872

**BOSSY, HERBERT G.**

Dsc, HY4:Jul 66:186:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123:4534

**BOTTOMS, ERIC E.**

Practical Tonnage Capacity of Canalized Waterways, WW1:Feb 66:33:4644

Dsc: William J. Santina and George B. Wesler, WW3:Aug 66:101:4872; Charles M. Wellons, WW3:Aug 66:102:4872; Billy R. Mahaffay and Wayne J. Ferguson, WW4:Nov 66:41:4957; Houghton R. Hallock, WW4:Nov 66:44:4957; Eugene E. Zeller, WW4:Nov 66:47:4957; Edwin W. Eden, Jr., WW4:Nov 66:49:4957; Howard J. Mullaney, WW4:Nov 66:51:4957; Carl H. Gaum, WW4:Nov 66:52:4957

**BOUGHTON, WALTER C.**

Dsc, HY2:Mar 66:421:4708, of "Mathematical Models of Catchment Behavior", HY4:Jul 65:123:4410

**BOUTHILLIER, PATRICK H.**

See Michael G. McGarry, SA4:Aug 66:33:4878

**BOUWER, HERMAN**

Theoretical Aspects of Seepage from Open Channels, HY3:May 65:37:4321

Dsc: Srisakdi Charmonman, HY5:Sep 65:324:4464; Hammad Y. Hammad, HY6:Nov 65:218:4527  
Clo: HY3:May 66:90:4805  
TR:131:377

**BOVAY, HARRY E., JR.**

Environmental Standards of Bayport, UP1:May 66:35:4813

**BOWEN, THOMAS J.**

Dsc, CE:May 66:76 of "An Engineering Appraisal of Hurricane Betsy", CE:Jan 66:37

**BOWER, C. A.**

See Leon Bernstein, IR4:Dec 66:97:4995

**BOWER, JOHN E.**

Experimental Stresses in Wide-Flange Beams with Holes, ST5:Oct 66:167:4945  
Elastic Stresses Around Holes in Wide-Flange Beams, ST2:Apr 66:85:4773

**BOWLES, ERNEST M.**

East Pakistan--Master Plan for Water and Power Development, CE:Aug 65:56  
TR:131:483

**BOWMAN, JAMES W.**

Dsc, CE:July 66:70 of Earl J. Kramer's position on non-participation of younger members, May 66:74

**BOWSER, HAMILTON V.**

Dsc, CE:Nov 66:78 of "Long Trusses Provide Adjustable Space", Harry P. Vankerhoff, CE:July 66:67  
Author's reply, CE:Nov 66:78

**BOYD, DONALD E.**

Dynamic Deformations of Circular Membranes, EM3:Jun 66:1:4844

- BOYD, MARDEN B.**  
See Frank B. Campbell, HY3:May 65:149:4331
- BOYLE, WILLIAM C.**  
See James A. Mueller, SA2:Apr 66:9:4756
- BOYNTON, R. M.**  
Tagus River Bridge--for Highway and Railway Traffic, CE:Feb 66:34
- BRAESTER, CAROL**  
See Jacob Bear, HY5:Sept 66:115:4911
- BRANCH, MELVILLE C.**  
Civil Engineering in City and Regional Planning, with L. M. K. Boelter, UP1:May 66:53:4827
- BRANDLEY, REINARD**  
Slip-Forming Thick Concrete for the Sacramento Airport, with W. H. Jervis, CE:Aug 66:58
- BRATER, ERNEST F.**  
See Khalil I. Beitinjani, WW3:Aug 65:37:4434
- BRAVERMAN, M. M.**  
New York City's Air Pollution Index, with C. Theophil, CE:Apr 65:64  
TR:131:265
- BREDAR, WILLIAM L.**  
Colorado--Denver's Metro Waste Treatment Plant, CE:Dec 65:64  
TR:131:687
- BREEN, JOHN E.**  
Dsc, with Weldon W. Aldridge, ST5:Oct 66:375:4922, of "Strength of Reinforced Concrete Folded Plate Models", ST1:Feb 66:351:4688  
See Larry E. Farmer, ST2:Apr 66:229:4786
- BREIMEISTER, HARRY**  
Memoir of, TR:131:888
- BIGGS, ROBERT C.**  
Personnel for Inspection, CE:June 66:56
- BRINSER, AYERS**  
Role of Government on Water Resource Development, IR4:Dec 65:13:4558  
Dsc: Asit K. Biswas, IR3:Sept 66:74:4892;  
Robert L. McFall, IR3:Sept 66:75:4892
- BRISTOR, JOHN D.**  
Dsc, CO1:Jan 66:84:4597, of "Designing Specifications--A Challenge", CO1:May 65:29:4315
- BRITTAN, RAYMOND O.**  
Reactor Containment and Environmental Considerations, UP1:Sep 64:21:4037  
Dsc: William B. Cottrell, UP1:Jul 65:50:4388;  
Joel O. Lubenau and Francis J. Haughey, UP1:Jul 65:51:4388; William C. Siler, UP1:Jul 65:52:4388  
Clo: UP1:May 66:81:4806  
TR:131:315
- BROCK, RICHARD R.**  
Dsc, HY2:Mar 66:403:4708, of "Critical Analysis of Open-Channel Resistance", HY4:Jul 65:1:4387
- BROCK, W. S.**  
Canada--Winnipeg Favors Utility Construction in Winter, CE:Jul 65:66  
TR:131:442
- BROMS, BENGT B.**  
Design of Laterally Loaded Piles, SM3:May 65:79:4342  
Dsc: Peter Kocsis, SM1:Jan 66:183:4594  
Clo: SM4:Jul 66:75:4860  
TR:131:389  
Lateral Resistance of Piles in Cohesionless Soils, SM3:May 64:123:3909  
Dsc: Shamsheer Prakash and S. L. Agarwal, SM1:Jan 65:210:4197  
Clo: SM4:Jul 65:195:4394  
TR:131:475  
Lateral Resistance of Piles in Cohesive Soils, SM2:Mar 64:27:3825  
Dsc: Lyman W. Heller, SM6:Nov 64:211:4122;  
Hudson Matlock and Berry R. Grubbs, SM1:Jan 65:183:4197  
Clo: SM4:Jul 65:187:4394  
TR:131:478  
Self-Recording Soil Penetrometer, with D. E. Broussard, SM1:Jan 65:53:4200  
Dsc: Joaquin Fernandez-Zuazo, SM3:May 65:162:4308  
Clo: SM6:Nov 65:114:4525  
TR:131:311  
Shear Strength of a Soil After Freezing and Thawing, with Leslie Y. C. Yao, SM4:Jul 64:1:3958  
Dsc: Chester W. Kaplar, SM2:Mar 65:91:4257  
Clo: SM5:Sept 65:92:4457  
TR:131:375
- BRONWELL, ARTHUR B.**  
Dsc, CE:Apr 66:64, on education of engineers for management and leadership
- BROOKS, HARVEY**  
Challenge to Civil Engineering, PP1:Jan 64:21:3750  
Dsc: James M. Abernathy, PP2:May 64:65:3910; Adolph J. Ackerman, PP1:Jan 65:29:4186; Sergei N. Grimm, PP1:Jan 65:30:4186  
Clo: PP1:May 66:65:4804  
TR:131:344
- BROOKS, NORMAN H.**  
See Rex A. Elder, HY6:Nov 66:61:4975  
See Loh-Nien Fan, SA1:Feb 66:296:4637  
See Loh-Nien Fan, HY2:Mar 66:423:4708
- BROOKS, R. H.**  
Properties of Porous Media Affecting Fluid Flow, with A. T. Corey, IR2:Jun 66:61:4855
- BROTCHIE, JOHN F.**  
Direct Design of Framed Structures, ST6:Dec 64:243:4182

- BROTCHIE, JOHN F.** Continued  
 Dsc: Frederic T. Mavis, ST2:Apr 65:212:4285  
 Clo: ST4:Aug 65:244:4432  
 TR:131:37  
 See Kenneth F. Reinschmidt, ST6:Dec 66:281:5015
- BROTTON, DEREK M.**  
 Dsc, with David Johnson, ST5:Oct 66:339:4922, of "Structural Analysis of Suspension Bridges", ST1:Feb 66:49:4664
- BROUSSARD, D. E.**  
 See Bengt B. Broms, SM1:Jan 65:53:4200
- BROWN, DANIEL M.**  
 Structural Optimization by Nonlinear Programming, with Alfredo H.-S. Ang, ST6:Dec 66:319:5016
- BROWN, DONALD N.**  
 See Richard G. Ahlvin, AT2:Oct 65:29:4489
- BROWN, JOHN F.**  
 Airport Accessibility Affects Passenger Development, AT1:Apr 65:47:4302  
 Dsc: H. K. Friedland, AT1:Jan 66:172:4595; Vukan R. Vuchic, AT1:Jan 66:173:4595  
 Clo: AT2:Nov 66:104:4955
- BROWN, PHILIP P.**  
 Airfield Pavement Evaluation Procedures, AT1:Apr 65:15:4299  
 Dsc: G. Y. Sabastyan, AT2:Oct 65:78:4505; Richard A. P. Berry, AT2:Oct 65:87:4505; John L. McRae and W. E. Posey, AT1:Jan 66:163:4595; George Moraldi, AT1:Jan 66:170:4595  
 Clo: AT2:Nov 66:103:4955
- BRUNTING, ARTHUR E.**  
 Operating a Sea Water Barrier Project, with Frederick D. Seares, IR1:Mar 65:117:4264  
 Dsc: Paul Baumann, IR3:Sep 65:98:4453; Stanley S. Butler, IR4:Dec 65:107:4550  
 Clo: IR3:Sept 66:60:4892  
 TR:131:636
- BRUMER, MILTON**  
 Quality Control for Steel Construction, with Frank Stahl, CE:Oct 65:76  
 TR:131:603  
 Verrazano-Narrows Bridge: Design of Superstructure, with Herbert Rothman, Michael Fiegen, and Benjamin Forsyth, CO2:Mar 66:23:4742
- BRUNDRETT, EWART**  
 Dsc, HY3:May 66:123:4805, of "Turbulent Flow in a Three-Dimensional Channel", HY6:Nov 65:9:4530
- BRUST, KENNETH J.**  
 See John A. Replogle, HY5:Sept 66:1:4895  
 See John A. Replogle, IR3:Sept 66:17:4888
- BRUTSAERT, WILFRIED**  
 See Hassan Ali Ibrahim, IR2:Jun 65:21:4357
- BRYANT, VIRGIL F., JR.**  
 Chart Converts Bearings to Angles, CE:Nov 66:76
- BUCHANAN, ROBERT D.**  
 See, Robert A. Dudley, CE:Dec 66:48
- BUEHLER, JOHN P.**  
 Dsc, CE:July 66:70, Praise for Denver Water Resources Conference
- BUGLIARELLO, GEORGE**  
 HYDRO, a Computer Language for Water Resources Engineering, with William D. McNally, John T. Germley, and John T. Onstott, CE:Nov 66:69  
 Non-Newtonian Flows--Their Value in Civil Engineering, CE:Aug 65:68  
 TR:131:509  
 See Viraf S. Bhavnagri, HY4:Jul 66:63:4868
- BUKER, PAUL**  
 Cold-Formed Steel Members for Economy and Easy Assembly, CE:May 65:64  
 TR:131:363
- BURGESS, FRED J.**  
 Dsc, SA6:Dec 66:146:4996, of "Federal Water Pollution Control Laboratories", SA2:Apr 66:43:4758
- BURGY, ROBERT H.**  
 See George J. Kriz, HY5:Sept 66:39:4899  
 See George J. Kriz, HY5:Sept 66:49:4901
- BURKART, WILLIAM F.**  
 Dsc, EM3:Jun 66:106:4828, of "Thermal-Shock Effects on a Space Vehicle", EM4:Aug 65:1:4425
- BURKE, MAXWELL F.**  
 Dsc, HY5:Sept 66:278:4891, of "Design Drouth Criteria", HY2:Mar 66:233:4731
- BURNS, NED H.**  
 Plastic Hinging in Reinforced Concrete, with Chester P. Sless, ST5:Oct 66:45:4931  
 Repeated and Reversed Loading in Reinforced Concrete, with Chester P. Sless, ST5:Oct 66:65:4932
- BUSCH, ARTHUR W.**  
 See Edward D. Schroeder, SA1:Feb 66:85:4655
- BUSH, ALBERT F.**  
 Urban Atmospheric Pollution, CE:May 65:66  
 Dsc: M.I. Goldman, CE:Aug 65:74; Author's reply, CE:Aug 65:75  
 TR:131:325  
 Virus Removal in Sewage Treatment, with John D. Isherwood, SA1:Feb 66:99:4653
- BUSHNELL, DAVID**  
 Machine Computation of Trigonometric Functions, with Wayne A. Madsen, EM6:Dec 66:157:5046

**BUSTAMANTE, JORGE I.**

Ultimate Load Capacity of Arch Dams, with Emilio Rosenblueth, EM4:Aug 66:21:4879  
Water Pressure on Dams Subjected to Earthquakes, with Armando Flores, EM5:Oct 66:115:4954

**BUTLER, STANLEY S.**

Dsc, HY2:Mar 66:450:4708 of, "Parametric Hydrology and Stochastic Hydrology: Report of the Committee on Surface Water Hydrology", HY6:Nov 65:119:4539

**CALDWELL, LAMAR H.**

See Howard L. Payne, ST5:Oct 65:43:4499

**CAMP, THOMAS R.**

Field Estimates of Oxygen Balance Parameters, SA5:Oct 65:1:4485

Dsc: Richard L. O'Connell, SA1:Feb 66:331:4637; Gerald M. Leigh, SA3:Jun 66:14:4830; David H. Stoltenberg, SA3:Jun 66:15:4830

Clo: SA6:Dec 66:115:4996

Theory of Water Filtration, SA4:Aug 64:1:3990

Dsc: Kenneth J. Ives, SA1:Feb 65:92:4213; R. M. W. Horner and Christopher R. Ison, SA2:Apr 65:67:4281; Donald R. Stanley, SA2:Apr 65:71:4281; W. R. Conley, SA2:Apr 65:72:4281; Igor Tesarik, SA2:Apr 65:80:4281; Herbert E. Hudson, Jr., SA2:Apr 65:80:4281; Arun K. Deb, SA2:Apr 65:84:4281; Rolf Eliassen, SA2:Apr 65:91:4281; Charles R. O'Melia, SA2:Apr 65:92:4281

Clo: SA5:Oct 65:55:4492

TR:131:1

**CAMPBELL, FRANK B.**

Boundary Layer Development and Spillway Energy Losses, with Robert C. Cox and Marden B. Boyd, HY3:May 65:149:4331

Dsc: Bruce Hunt and Rene Chevray, HY6:Nov 65:238:4527; Enzo Levi, HY6:Nov 65:241:4527; N. Rajaratnam, HY1:Jan 66:107:4596; John J. Cassidy, HY2:Mar 66:370:4708; William J. Bauer, HY2:Mar 66:373:4708

Clo: HY6:Nov 66:201:4959

TR:131:872

**CAMPBELL, WILSON E.**

Social and Economic Factors in Highway Location, HW2:Oct 66:35:4926

**CAMPENELLA, RICHARD G.**

See James K. Mitchell, SM4:Jul 65:41:4392

**CANDY, COLIN F.**

Dsc, ST3:Jun 66:259:4831, of "Design of Prestressed Concrete Buildings for Earthquake Resistance", ST5:Oct 65:1:4488

**CAREY, JOSEPH P.**

Dsc, SU2:Jun 66:52:4832, of "Current Problems in Property Location", SU2:Sept 65:1:4465

**CAREY, WALTER C.**

Comprehensive River Stabilization, WW1:Feb 66:59:4672

Dsc: Raymond H. Haas, WW4:Nov 66:54:4957; John B. Henley, WW4:Nov 66:55:4957

Dsc, WW3:Aug 66:94:4872, of "Control of Obnoxious Aquatic Plants in the Southeast", WW4:Nov 65:31:4536

Dsc, WW1:Feb 66:134:4639, of "Influence of Soil Types on Stabilization of the Savannah River", WW3:Aug 65:7:4430

Dsc, WW4:Nov 66:57:4957, of "Laboratory Contributions to Channel Stabilization", WW1:Feb 66:87:4673

Dsc, WW3:Aug 66:100:4872, of "Snake River Bank Stabilization", WW1:Feb 66:1:4642

**CARHART, FRANK MILTON**

Memoir of, TR:131:889

**CARNEY, J. M.**

Hurricane-Resistant Plywood Construction, CE:June 66:57

**CARPENTER, EDWARD F.**

Redwood Bark for Sewage Treatment, SA1:Feb 66:11:4641

**CARR, JAMES K.**

Airports and Transit Systems--the Engineer's

Challenge, CE:Apr 65:38

Dsc: Herbert C. Westfall, CE:Jun 65:72

TR:131:233

**CARR, JAMES R.**

The Airport and its Approaches, with John R. Eva, AT2:Oct 65:39:4490

TR:131:593

Dsc, with Edward Mellman, AT1:Jan 66:159:4595, of, "Intercity Travel Characteristics", AT1:Apr 66:1:4296

**CARRAVETTA, ROBERTO**

Dsc, IR1:Mar 66:102:4700, of "Inflow Hydrographs from Large Unconfined Aquifers", IR2:Jun 65:21:4357

**CARROLL, CHARLES**

Digital Simulation of Heat Flow in Soils, with Hilbert Schenck, Jr., and Wayne Williams, SM4:Jul 66:31:4865

**CARROLL, LEO J.**

Closed Loop Chlorination Control, SA2:Apr 66:51:4760

**CARROLL, RODERICK D.**

Rock Properties Interpreted from Sonic Velocity Logs, SM2:Mar 66:43:4715

Dsc: Bryant Mather, SM6:Nov 66:254:4958

**CARSON, A. BRINTON**

Converting Excavation Specifications into a Plan of Operation, CE:Apr 66:58

**CARSTENS, MARION R.**

Similarity Laws for Localized Scour, HY3:May 66:13:4818

**CARSTENS, MARION R. Continued**

Dsc: Thomas Maddock, Jr., HY6:Nov 66:  
271:4959; Frederic T. Mavis, HY6:Nov 66:273:  
4959  
Water Hammer Resulting from Cavitating  
Pumps, with T.W. Hagler, Jr., HY6:Nov 66:  
161:4143

Dsc: Don J. Wood, HY3:May 65:393:4304;  
Bruce B. Sharp, HY5:Sep 65:229:4464  
Clo: HY2:Mar 66:357:4708  
TR:131:277  
Dsc, PL1:Mar 66:75:4699, of "Hydraulic Trans-  
port of Solids in a Sloped Pipe", PL2:Nov 64:  
1:4125

**CARTER, ARCHIE N.**

Dsc, CO1:Jan 66:81:4597, of "Designing Speci-  
fications--A Challenge", CO1:May 65:29:4315

**CARTER, DAVID L.**

See Victor I. Myers, IR4:Dec 66:59:5040

**CARTER, H. R.**

Better Activated Sludge by the Kessener-  
Brush Aeration Process, CE:Dec 65:67  
TR:131:792

**CASAGRANDE, ARTHUR**

Role of the 'Calculated Risk' in Earthwork and  
Foundation Engineering, SM4:Jul 65:1:4390  
Dsc: James H. Stratton, SM1:Jan 66:185:  
4594; F.A. Nickell, SM1:Jan 66:187:4594; Hugh  
Q. Golder, SM1:Jan 66:188:4594; Geoffrey M.  
Binnie, SM1:Jan 66:189:4594; Francis B.  
Slichter, SM1:Jan 66:191:4594; Irving Sher-  
man, SM1:Jan 66:192:4594; Edwin S. Smith,  
SM2:Mar 66:162:4701; Anton Tedesko, SM2:Mar 66:  
164:4701; Wendell E. Johnson, SM2:Mar 66:165:  
4701; Wilson V. Binger, SM2:Mar 66:167:4701;  
Milton Vargas, SM2:Mar 66:168:4701; Henry A.  
Mohr, SM3:May 66:99:4807; Wallace L. Chad-  
wick, SM3:100:4807

**CASAGRANDE, LEO**

Subsoils and Foundation Design in Richmond,  
Va., SM5:Sept 66:109:4915

**CASPE, MARC S.**

Surface Settlement Adjacent to Braced Open  
Cuts, SM4:Jul 66:5:4867  
Dsc: Harrison Kane, SM6:Nov 66:255:4958

**CASSIDY, JOHN J.**

Irrational Flow Over Spillways of Finite  
Height, EM6:Dec 65:155:4591  
TR:131:866

Dsc, HY2:Mar 66:370:4708, of "Boundary  
Layer Development and Spillway Energy  
Losses", HY3:May 65:149:4331

**CAWLEY, MARTIN L.**

Concrete Pavement Performance at Ten Civil  
Airports, AT2:Nov 66:83:4981

**CAWLEY, WILLIAM A.**

Application of Radioactive Tracers to Stream  
Improvements, with Wyman C. Rutledge, SA1:  
Feb 66:1:4640

**CEDERGREN, HARRY R.**

Dsc, SM5:Sept 66:140:4890, of "A Method for  
Earthquake Resistant Design of Earth Dams",  
SM1:Jan 66:13:4616

**CERMAK, JACK E.**

See Hsing Chuang, HY6:Nov 65:1:4526

**CHADWICK, WALLACE L.**

Are We Geared to Long-Range Objectives?,  
CE:Jan 65:38  
TR:131:5  
The Civil Engineer and His Education,  
CE:Sep 65:31  
TR:131:549

A Civil Engineer--and Proud of It,  
CE:Jan 65:37  
TR:131:21

Civil Engineering Responsibilities and Engi-  
neering Education, CE:Jul 65:35  
TR:131:528

Contracting Conditions and Construction  
Quality, CE:Aug 65:53  
Dsc: M. Harry Wartur, CE:Nov 65:99  
TR:131:500

A Design for the Future, CE:Jun 65:36  
TR:131:406

Engineering Registration--Why and What Not,  
CE:Sept 66:39  
Dsc: Walter H. Wheeler, CE:Nov 66:77;  
Lester A. Hoel, CE:Nov 66:77

Some Challenges in Power, CE:Nov 65:82  
TR:131:657

You and Your Local Section, CE:Apr 65:37  
TR:131:222

Who Will Train Our Leaders?, CE:Mar 66:31  
Dsc, CE:Oct 66:67 on Raymond Hill's position  
of selecting Society officers, CE:Sept 66:81

Dsc, SM3:May 66:100:4807, of "Role of the  
"Calculated Risk" in Earthwork and Foundation  
Engineering", SM4:Jul 65:1:4390

**CHAJES, ALEXANDER**

Torsional-Flexural Buckling of Thin-Walled  
Members, with George Winter, ST4:Aug 65:103:  
4442

Dsc: Charles G. Culver, ST6:Dec 65:300:4547  
Clo: ST5:Oct 66:320:4922  
TR:131:815

**CHAKKO, K. C.**

Generalized Resection Method in Surveying,  
SU1:Apr 65:23:4290  
Corr: SU2:Jun 66:51:4832  
TR:131:421

**CHAMBERS, RICHARD E.**

Fiberglass-Reinforced Plastics as Materials  
for Construction, CE:June 66:62

**CHAN, CLARENCE K.**

See H. Bolton Seed, SM2:Mar 66:53:4723

**CHANDLER, E. LAWRENCE**

Former Assistant Secretary dies, CE:  
Mar 66:90



**CHANDLER, E. LAWRENCE Continued**

To Bargain or Not to Bargain, CE:Aug 65:41  
TR:131:492

**CHANDLER, R. J.**

Dsc, SM4:Jul 66:98:4860, of "The Use of Free Ends in Triaxial Testing of Clays", SM6:Nov 65:1:4535

**CHANG, WILLIAM N.**

See Desl D. Vasarhelyi, ST4:Aug 65: 4422

**CHANG, YAO W.**

Vibrations and Stability of Buckled Panels, with Ernest F. Masur, EM5:Oct 65:1:4497  
TR:131:755

**CHANG, YIN-CHOW**

Design of Footing for Exposed Exterior Column, SM4:Jul 65:77:4401  
Corr: SM3:May 66:105:4807  
TR:131:352

**CHAO, JUNN-LING**

Study of Static Pressure Along a Rough Boundary, with Virgil A. Sandborn, HY2:Mar 65:193:4269

Dsc: Hans J. Leutheusser, HY6:Nov 65:206:4527

Clo: HY3:May 66:88:4805

TR:131:337

Dsc, HY3:May 66:119:4805, of "The Hydraulic Jump as a Wall Jet", HY5:Sep 65:107:4822

**CHAPPLE, MILTON A.**

Dsc, HY4:Jul 66:199:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123:4534

**CHARMONMAN, SRISAKDI**

Dsc, EM5:Oct 66:135:4921, of "Flow Graph Solutions of Band Matrix Problems", EM1:Feb 66:25:4656

Dsc, ST5:Oct 66:343:4922, of "Selective Inversion of Stiffness Matrices", ST1:Feb 66:75:4665

**CHARNES, ABRAHAM**

See Jimmie E. Quon, SA5:Oct 65:17:4491

**CHARPIE, ROBERT A.**

Dsc, CE:July 66:69, on finding good teachers for small colleges

**CHASE, E. SHERMAN**

Education for Sanitary Engineers, PP2:May 64:15:3694

Dsc: Sir George McNaughton, PP1:Jan 65:49:4186; Ray E. Lawrence, PP1:Jan 65:50:4186;

James Kip Finch, PP1:Jan 65:51:4186; Gordon M. Fair PP1:Jan 65:54:4186; P.J. Norris,

PP1:Jan 65:56:4186

Clo: PP2:Sept 65:85:4454

TR:131:301

Dsc, SA1:Feb 66:285:4637, of "Protecting the Purity of Inland Waters", SA6:Dec 64:1:4148

**CHEN, CHEN-LUNG**

Dsc, HY2:Mar 66:400:4708, of "Critical Analysis of Open-Channel Resistance", HY4:Jul 65:1:4387

Dsc, IR2:Jun 66:97:4829, of "A Solution of the Irrigation Advance Problem", IR3:Sept 65:23:4471

**CHEN, KENNETH K.**

See, E. A. Stratton, CE:Feb 66:56

**CHEN, TIO-CHUN**

Pressure Distribution on Spillway Flip Buckets, with Yun-Sheng Yu, HY2:Mar 65:51:4251

Dsc: Armando Balloffet, HY6:Nov 65:171:4527

Clo: HY5:Sept 66:193:4891

TR:131:776

**CHENOWETH, ALBERT AUSTIN**

Memoir of, TR:131:890

**CHESSON, EUGENE, JR.**

Bolted Bridge Behavior During Erection and Service, ST3:Jun 65:57:4365

TR:131:120

High-Strength Bolts Subjected to Tension and Shear, with Norberto L. Faustino and William H. Munse, ST5:Oct 65:155:4512

TR:131:588

Dsc, ST1:Feb 66:472:4638, of "High Strength Bolted Moment Connections", ST2:Apr 65:101:4298

Dsc, ST1:Feb 66:466:4638, of "Shear Strength of High-Strength Bolts", ST3:Jun 65:99:4368

See Gordon H. Sterling, ST5:Oct 65:279:4515

**CHEUNG, YAU KAI**

See Olgierd C. Zienkiewicz, EM1:Feb 66:111:4676

**CHIANG, FU-PEN**

A Method to Increase the Accuracy of Moire Method, EM1:Feb 65:137:4239

Dsc: Eric Middleton, EM5:Oct 65:227:4495

Clo: EM2:Apr 66:292:4747

TR:131:251

**CHIEURZZI, ROBERT L.**

See Dallas I. Downs, PO2:Apr 66:91:4750

**CHIN, MYRON W.**

Dsc, ST1:Feb 66:476:4638, of "Role of Strain Hardening in Plastic Design", ST3:Jun 65:25:4355

**CHITALE, SHRIKRISHNA V.**

See Chintaman V. Gole, HY2:Mar 66:111:4722

**CHIU, ARTHUR N. L.**

Vibration of Towers as Related to Wind Pulses, with Donald A. Sawyer and Linton E. Grinter, ST5:Oct 64:137:4114

Dsc: A. Ben Clymer, ST3:Jun 65:287:4346;

C. Allin Cornell, Leon B. Groisser, and Jose M. Roesset, ST3:Jun 65:287:4346

Clo: ST1:Feb 66:459:4638

TR:131:108

**CHIU, CHAO-LIN**

Effect of Secondary Currents on Sediment Transport in a Corner, with John E. McSparran, HY5:Sept 66:57:4905  
See James A. Liggett, HY6:Nov 65:99:4538

**CHOPRA, ANIL K.**

See Ray W. Clough, EM2:Apr 66:197:4793

**CHOW, LEE**

Rice Irrigation, IR3:Sep 65:35:4472  
Dsc: Arthur R. B. Edgecombe, IR1:Mar 66:112:4700  
Clo: IR3:Sept 66:72:4892  
TR:131:724  
Dsc, IR1:Mar 66:109:4700, of "Effect of Irrigation Method on Water Conservation", IR2: Jun 65:61:4364

**CHOW, VEN TE**

Sequential Generation of Rainfall and Runoff Data, with S. Ramaseshan, HY4:Jul 65:205:4418  
Dsc: Myron B. Fiering, HY6:Nov 65:252:4527; Robert L. McFall, HY1:Jan 66:155:4596  
Clo: HY4:Jul 66:162:4859  
TR:131:696  
See Somnath Datta, HY1:Jan 66:102:4596  
See John Asher Replogle, HY2:Mar 66:169:4727

**CHOWN, ROBERT G.**

See Thomas L. Russell, WW4:Nov 66:1:4978

**CHRISTENSEN, RICHARD W.**

Analysis of Clay Deformation As A Rate Process, with Tien Hsing Wu, SM6:Nov 64:125:4147  
Dsc: Sakuro Murayama, SM4:Jul 65:225:4394; Jagdish Narain and Bhawani Singh, SM4:Jul 65:230:4394  
Clo: SM2:Mar 66:152:4701  
TR:131:334

**CHRISTENSON, JAMES A.**

Self-Preservation in the Market Place, CE: May 66:67  
Dsc, Marvin E. Warner, CE:Aug 66:74

**CHRISTIAN, CHARLES E.**

See Melvin L. Barron, EM6:Dec 66:205:5049

**CHRISTIAN, FRANCIS G.**

Dsc, SM1:Jan 66:181:4594, of "Criteria for Acceptability of Papers: Report of the Committee on Publications of the Soil Mechanics and Foundations Division", SM3:May 65:51:4326

**CHRISTIAN, HOWARD E.**

Movable Bed Model for River Structure Design, with Warren J. Mellema and Walter M. Cinder, WW3:Aug 66:45:4883

**CHRISTIANSEN, HENRY N.**

See J. William Young, Jr., ST6:Dec 66:425:5021

**CHRISTIANSEN, JERALD E.**

Dsc, IR3:Sept 66:78:4892, of "Engineering Aspects of Reclamation of Sodic Soils with High-Salt Waters", IR4:Dec 65:59:4588  
Dsc, HY5:Sept 66:225:4891, of "Potential Evaporation and River Basin Evaporation", HY6:Nov 65:67:4534  
Dsc, IR3:Sept 66:80:4892, of "Rapid Assessment of Sprinkler Performance", IR1:Mar 66:1:4706  
Dsc, IR3:Sept 66:83:4892, of "Relationships Among Sprinkler Uniformity Measures", IR1:Mar 66:41:4720  
Dsc, with James P. Thorne, IR3:Sept 66:84:4892, of "Salinity Problems and Management in River Systems", IR1:Mar 66:77:4733

**CHRISTOPHER, RICHARD J.**

Calibration of Alloy Steel Bolts, with Geoffrey L. Kulak and John W. Fisher, ST2:Apr 66:19:4768

**CHU, KUANG-HAN**

Multiple Folded Plates, with S. G. Pinjarkar, ST2:Apr 66:297:4791  
Dsc: Lawrence Fischer, ST5:Oct 66:391:4922

**CHUANG, HSING**

Turbulence Measured by Electrokinetic Transducers, with Jack E. Cermak, HY6:Nov 65:1:4526  
Corr: HY4:Jul 66:168:4859  
TR:131:743

**CINDER, WALTER M.**

See Howard E. Christian, WW3:Aug 66:45:4883

**CITERLEY, RICHARD L.**

See Shigeki T. Yamahara, ST5:Oct 66:358:4922

**CLARK, BRADFORD N.**

See W. O. Hiltabidle, Jr., CO1:May 65:141:4340

**CLARK, C. SCOTT**

Oxidation of Coal Mine Pyrite, SA2:Apr 66:127:4802  
Dsc: Ivan Barnes, SA6:Dec 66:152:4996  
Dsc, SA5:Oct 66:111:4920 of "Re-Assessing An Old Problem-Acid Mine Drainage", SA1:Feb 66:69:4654

**CLARK, CHARLES E.**

Hog Waste Disposal by Lagooning, SA6:Dec 65:27:4587  
Dsc: David H. Stoltenberg, SA4:Aug 66:78:4873; Ross E. McKinney, SA4:Aug 66:80:4873

**CLARK, JOHN W.**

Buckling of Aluminum Columns, Plates, and Beams, with Richard L. Rolf, ST3:Jun 66:17:4838  
Design of Aluminum Tubular Members, with Richard L. Rolf, ST6:Dec 64:259:4184  
Dsc: Rolland G. Sturm, ST4:Aug 65:246:4432  
Clo: ST2:Apr 66:390:4759  
TR:131:271  
See James C. Young, SA1:Feb 65:43:4232

- CLARK, ROBERT A.**  
See Michael D. Hudlow, HY2:Mar 66:33:4710
- CLEARY, EDWARD J.**  
Dsc, CE:Oct 66:67 on the attack of Vinton W. Bacon
- CLEASBY, JOHN L.**  
Rational Aspects of Split Treatment Lime Softening, with James H. Dillingham, SA2:Apr 66:1:4755  
Corr: SA5:Oct 66:127:4920  
See David M. Fox, SA5:Oct 66:61:4941  
See Robert L. Johnson, SA1:Feb 66:215:4692
- CLEMMER, LEWIS E.**  
See Marion W. Wilcox, EM6:Dec 64:165:4176
- CLOUGH, RAY W.**  
Earthquake Stress Analysis in Earth Dams, with Anil K. Chopra, EM2:Apr 66:197:4793  
Finite Element Analysis of Axis-Symmetric Solids, with Yusef Rashid, EM1:Feb 65:71:4229  
Dsc: Richard H. Gallagher, EM3:Jun 65:293:4348  
There will be no closure: EM2:Apr 66:4747  
TR:131:98
- CLYDE, CALVIN G.**  
Fluctuating Total Head in a Viscous Sublayer, with Hans A. Einstein, EM2:Apr 66:251:4800  
Dsc: John R. Glover, Sedat Sami, and Frederick A. Locher, EM6:Dec 66:257:4994
- CLYDE, DOUGLAS H.**  
Equilibrium Method for Limit Calculation of Frames, EM1:Feb 66:169:4697  
Dsc: Carl Berwanger, EM5:Oct 66:148:4921; Aron Zaslavsky, EM6:Dec 66:242:4994; Randal H. Wood, EM6:Dec 66:248:4994
- COGAN, ARNOLD M.**  
Dsc, CE:Aug 66:74 of ASCE's position on the New Jersey Planners Law  
Reply & Dsc, W.H. Wisely, CE:Aug 66:74
- COHEN, BENJAMIN P.**  
How to Inspect Construction, CE:Oct 65:62  
TR:131:591
- COHN, M. Z.**  
Limit Design of Continuous Reinforced Concrete Crane Girders, ST3:Jun 66:161:4850  
Dsc, ST4:Aug 66:108:4871, of "Limit Design by Successive Moment Distribution", ST1:Feb 66:405:4691
- COLACO, JOSEPH P.**  
See Fazlur R. Khan, ST6:Dec 66:55:5003
- COLGAN, FRANCIS JOSEPH**  
Memoir of, TR:131:891
- COMPTON, J. R.**  
See W.J. Turnbull, SM1:Jan 66:93:4623
- CONWAY, RICHARD A.**  
Field Techniques for Evaluating Aerators, with Gordon W. Kumke, SA2:Apr 66:21:4757  
Dsc: Ross E. McKinney, SA5:Oct 66:127:4920
- COOK, JOHN P.**  
Photosensitive Plastics Extend the Range of Photoelastic Stress Studies, CE:Nov 65:87  
TR:131:711
- COPP, HOWARD D.**  
See Clifton W. Johnson, HY3:Sept 66:165:4916
- CORBETTA, ROGER H.**  
See Hal W. Hunt, CO1:Jan 66:1:4604
- COREY, A. T.**  
See R.H. Brooks, IR2:Jun 66:61:4855
- CORLEY, W. GENE**  
Rotational Capacity of Reinforced Concrete Beams, ST5:Oct 66:121:4939
- CORNELL, C. ALLIN**  
See Kenneth F. Reinschmidt, ST6:Dec 66:281:5015  
See Gerald M. Sturman, ST6:Dec 66:141:5007
- CORRADI, PETER A.**  
Military Engineering in Vietnam, CE:Nov 65:47  
TR:131:617
- CORRALES, MANUEL F.**  
See Carlos A. Ulate, HY6:Nov 66:117:4984
- CORTELYOU, FRANK M.**  
Corr, CE:Oct 66:67 of Tatlow's Biography, CE:Sept 66:71
- COSTANTINO, CARL J.**  
See Martin A. Salmon, ST3:Jun 65:229:4384
- COULL, ALEXANDER**  
Stress Analysis of Cantilevered Bridge Slabs, ST2:Apr 66:1:4765  
Dsc, ST5:Oct 66:346:4922, of "Analysis of a Shear Wall Supported by a Beam", ST1:Feb 66:121:4668  
Dsc, ST5:Oct 66:381:4922, of "Behavior of Square Infilled Frames", ST1:Feb 66:381:4690
- COURTOIS, PETER D.**  
Dsc, CE:Apr 66:64, of "Lateral Pressure of Concrete on Formwork", CE:Dec 65:60
- COX, MOSES EUGENE**  
Memoir of, TR:131:892
- COX, ROBERT C.**  
See Frank B. Campbell, HY3:May 65:149:4331

- COYLE, HARRY M.**  
Load Transfer for Axially Loaded Piles in Clay, with Lymon C. Reese, SM2:Mar 66:1:4702
- CRADDOCK, DABNEY S., III**  
A Critique of Engineering Education, PP2: Sep 65:7:4461  
Dsc: Asit K. Biswas, PP1:May 66:68:4804; Robert Lloyd McFall, PP1:May 66:69:4804
- CRANDALL, DAVID L.**  
Reservoir Topography by Shoreline Plotting, SU1:Apr 64:39:3874  
Dsc: Daniel Kennedy, SU1:Apr 65:64:4280  
TR:131:579
- CRAWFORD, CARL B.**  
Interpretation of the Consolidation Test, SM5: Sep 64:87:4056  
Dsc: Nyal E. Wilson and M. B. Lo, SM1: Jan 65:231:4197; John H. Schmertmann, SM2: Mar 65:131:4257; Adolph G. Altschaeffl, SM3: May 65:146:4308; Harvey E. Wahls and Nelson S. de Godoy, SM3:May 65:147:4308  
Clo: SM6:Nov 65:104:4525  
TR:131:13
- CRENSHAW, ALLEN E.**  
Dsc, ST5:Oct 66:327:4922, of "Analysis of Nonprismatic Continuous Structures", ST1: Feb 66:1:4647  
Dsc, ST4:Aug 66:59:4871, of "Generalization of Hardy Cross Method", ST5:Oct 65:57:4502
- CRIEVES, ROBERT B.**  
Foam Separation for Water Clarification, SA1:Feb 66:41:4650
- CRIMMINS, A. HOLMES**  
See Hal W. Hunt, CO1:Jan 66:1:4604
- CRIPPEN, JOHN R.**  
Cycles in Hydrologic Data, CE:Jan 65:70  
Dsc: Gordon R. Williams, CE:Mar 65:62  
TR:131:86  
Dsc, HY6:Nov 66:228:4959, of "Processing Streamflow Data," by the Committee on Surface Water Hydrology, ASCE, HY2:Mar 66:145:4725
- CRISMAN, W. C.**  
See Billy J. Harris, EM3:Jun 65:93:4370
- CRISP, ROBERT L., JR.**  
See Fred A. Robeson, CO3:Sept 66:51:4906
- CROOK, LEONARD T.**  
Federal Employee-Management Cooperation: E.O. 10988, PP1:May 66:19:4819  
Dsc: John H. Garren, PP2:Dec 66:40:4992
- CROSS, RALPH H.**  
See Robert L. Wiegall, WW2:May 66:1:4816
- CULBERTSON, JAMES K.**  
See Joseph P. Beverage, HY6:Nov 64:117:4136
- CULLMANN, KARL** (Steinhaus, Max, translator)  
Brown's Timber Railroad Bridges, CE: Nov 66:72
- CULVER, CHARLES G.**  
Exact Solution of the Biaxial Bending Equations, ST2:Apr 66:63:4772  
Initial Imperfections in Biaxial Bending, ST3: Jun 66:119:4846
- CULVER, R.**  
Rapid Assessment of Sprinkler Performance, with R. F. Sinker, IR1:Mar 66:1:4706  
Dsc: Jerald E. Christiansen, IR3:Sept 66:80: 4892; Winston C. Strong, IR4:Dec 66:73:4995
- CUMMING, JAMES D.**  
See Richard J. Frankel, SA2:Apr 65:33:4297  
See Richard J. Frankel, HY4:Jul 66:157:4859
- CUNNINGHAM, JAMES M.**  
Design of the Saturn V Mobile-Launcher, AT2:Nov 66:39:4963
- CURRAN, WILLIAM F.**  
Dsc, ST1:Feb 66:485:4638, of "Influence Lines for Beams on Elastic Foundations", ST3: Jun 65: 45:4359
- CURTIN, ROBERT H.**  
The U. S. Air Force Conserves Natural Resources, CE:May 66:43
- CURTIS, KENNETH S.**  
The Case of the Missing Curriculum, SU2:Jul 64:27:3963  
Dsc: Walter S. Dix, SU1:Apr 65:64:4280; Asit K. Biswas, SU1:Apr 65:65:4280; Linton E. Grinter, SU1:Apr 65:66:4280; Richard R. Mayer, SU1:Apr 65:68:4280  
TR:131:700
- CUSENS, ANTHONY R.**  
Design of Concrete Multibeam Bridge Decks, with Ricardo P. Pama, ST5:Oct 65:255:4518  
Dsc: F. Sawko, ST4:Aug 66:79:4871; Pijush Kanti Som, ST4:Aug 66:83:4871; G. P. Saha, ST4:Aug 66:85:4871  
Dsc, CO3:Sept 66:86:4889, of "Stability of Fresh Concrete Mixes", CO1:Jan 66:17:4610
- CYRUS, NANCY JANE**  
Finite Difference Accuracy in Structural Analysis, with Robert E. Fulton, ST6:Dec 66:459:5023
- DAGAN, GEDEON**  
Steady Drainage of Two-Layered Soil, IR3: Sep 65:51:4474  
Dsc: Lee D. Dumm, IR2:Jun 66:102:4829  
Dsc, IR4:Dec 66:82:4995, of "Steady-State Theories for Drainage", IR1:Mar 66:19:4707  
Dsc, IR1:Mar 66:111:4700, of "Transient Design of Drainage Systems", IR3:Sept 65:9:4458  
See Jacob Bear, HY4:Jul 64:193:3988
- DALLEY, D. G.**  
Utah--A National Forest at Vernal Goes Modern, CE:Sep 65:67  
TR:131:768

**DALY, ELTON F.**

Mounting Plate Glass in Sides of Flumes and Tanks, CE:Jun 65:74  
TR:131:586

**DANIEL, ISAAC M.**

Viscoelastic Wave Interaction with Cylindrical Cavity, EM6:Dec 66:25:4999

**DANN, HOWARD E.**

Unlined Tunnels of the Snowy Mountain Hydro-Electric Authority, Australia, with W.P. Hartwig and J.R. Hunter, PO3:Oct 64:47:4071

Dsc: Frederic L. Lawton, PO1:May 65:118:  
4313; A. Rufenacht, PO1:May 65:120:4313;  
John W. Morris, PO1:May 65:123:4313  
Clo: PO1:Jan 66:125:4598  
TR:131:17

**D'ANNUNZIO, JOSEPH D.**

Dsc, CE:Mar 66:86, of M. Harry Wartur's letter, CE:Nov 65:99 concerning "Contracting Conditions and Construction Quality," CE:  
Aug 65:53

**DATTA, SOMNATH**

Dsc, with Ven Te Chow, HY1:Jan 66:102:4596, of "Computer Analysis of Overland Flow", HY3:  
May 65:81:4325

**DAVE, PRANSHANKER C.**

Dsc, ST5:Oct 66:352:4922, of "Eccentrically Loaded Trapezoidal or Round Footings", ST1:  
Feb 66:161:4670

**DAVENPORT, ALAN G.**

Dynamic Behavior of Massive Guy Cables, with George N. Steels, ST2:Apr 65:43:4293  
TR:131:511

**DAVIES, J. MICHAEL**

Frame Instability and Strain Hardening in Plastic Theory, ST3:Jun 66:1:4836

**DAVIS, ELLSWORTH I.**

Stabilizing the Lower Mississippi River, with Ernest B. Lipscomb, CE:Nov 65:64  
TR:131:630

**DAVIS, ERIC**

Sand Filtration of Particulate Matter, with Jack A. Borchardt, SA5:Oct 66:47:4940

**DAVIS, JOHN P.**

Experimental Research on Lock Hydraulic Systems, with Thomas E. Murphy, WW1:  
Feb 66:17:4643

**DAY, F. D.**

Strain-Gradient Effects in Microlayers, with Yechiel Weitsman, EM5:Oct 66:67:4943

**DAWDY, DAVID R.**

Mathematical Models of Catchment Behavior, with Terence O'Donnell, HY4:Jul 65:123:4410

Dsc: Walter C. Boughton, HY2:Mar 66:421:  
4708

Clo: HY6:Nov 66:207:4959

**DEAN, ROBERT G.**

Dsc, WW4:Nov 66:37:4957, of "Irregular Wave Forces on a Pile", WW4:Nov 65:1:4528

**DEB, ARUN K.**

Dsc, SA1:Feb 66:321:4637, of "Filtration Through Size-Graded Media", SA3:Jun 66:89:  
4378

**DECANCQ, GEORGE H.**

See Nomer Gray, CO2:Mar 66:95:4744

**DeFAZIO, FRANKLIN G.**

See Benjamin Donsky, HY1:Jan 66:144:4596

**DEININGER, ROLF A.**

Dsc, SA6:Dec 66:126:4996, of "Optimization Analysis for Biological Filter Design", SA1:

**DE JONG, REMY L. A.**

Dsc, SA1:Feb 66:330:4637, of "How to Plan an Inconsequential Research Project", SA4:Aug 65:  
19:4437

**DELAY, WILLIAM H.**

Predicting Temperatures in Rivers and Reservoirs, with John Seaders, SA1:Feb 66:115:4675  
Dsc: Ronald E. Nece, SA5:Oct 66:112:4920;  
Rex A. Elder and Walter O. Wunderlich, SA6:  
Dec 66:120:4996; David W. Duttweiler, SA6:  
Dec 66:124:4996

**DEL CAMPO, ALEJANDRO**

See J. Laginha Serafim, SM5:Sep 65:65:4484

**DELLEUR, JACQUES W.**

Flow Direction Measurement by Hot-Wire Anemometry, EM4:Aug 66:45:4870  
Dsc, with Edwin B. Vician, HY5:Sept 66:243:  
4891, of "Time in Urban Hydrology", HY1:  
Jan 66:13:4615

**DELL' ISOLA, A. J.**

Value Engineering in Construction, CE:  
Sept 66:58

**DEMIR, HALIL HALIT**

Cylindrical Shells Under Ring Loads, ST3:  
Jun 65:71:4366  
Corr: ST2:Apr 66:409:4759

**DE NEUFVILLE, RICHARD L.**

White House Fellowship--A Year at the Top, CE:Oct 66:44  
Dsc, ST3:Jun 66:272:4831, of "Buckling Strength of Circular Tubes", ST5:Oct 65:325:  
4520

**DENNING, RICK A.**

Dsc, WW3:Aug 66:106:4872, of "Flow Measurement Techniques for Hydraulic Dredges", WW1:  
Feb 66:109:4683

**DENTON, DON R.**

Model Study of Dynamically Loaded Arch Structures, with William J. Flathau, EM3:  
Jun 66:17:4848

**DE PAIVA, H.A. RAWDON**

Strength and Behavior of Deep Beams in Shear, with Chester P. Siess, ST5:Oct 65:19:4496  
Dsc: Fritz Leonhardt, ST2:Apr 66:427:4759

**DE SANTIS, PHILIP V.**

See George G. Goble, ST6:Dec 66:25:5001

**DE SIMONE, RALPH E.**

See W.O. Hiltabidle, Jr., CO1:May 65:141:4340

**DE URENA, RAFAEL**

Dsc, SM4:Jul 66:94:4860, of "Interstitial Pressure on Rock Foundations of Dams", SM5:  
Sep 65:65:4484

**DEWEY, HAYWOOD G., JR.**

California's State Water Project on Schedule, CE:Jan 66:48  
Dsc: Howard D. Greyber, CE:May 66:76;  
Author's reply, CE:May 66:76

**DIAPER, ERNEST W. J.**

Filtration Through Size-Graded Media, with Kenneth J. Ives, SA3:Jun 65:89:4378  
Dsc: John L. Cleasby, SA6:Dec 65:64:4546;  
Arun K. Deb, SA1:Feb 66:321:4637; G. T. J. Fox, SA1:Feb 66:326:4637  
Clo: SA4:Aug 66:73:4873  
TR:131:771

**DICK, RICHARD I.**

Dsc, SA5:Oct 66:117:4920, of "In Situ Measurement of Solids in Final Clarifiers", SA1:Feb 66:183:4686  
Dsc, SA6:Dec 66:144:4996, of "Nominal Diameter of Floc Related to Oxygen", SA2:Apr 66:9:4756

**DICKER, DANIEL**

Aerodynamic Stability of H Sections, EM2:  
Apr 66:1:4764

**DIEMER, ROBERT**

ASCE Honorary Member Robert Diemer Dies, CE:Dec 66:40

**DIETRICH, RUDY J.**

See Charles I. Mansur, SM4:Jul 65:151:4415

**DI GIANO, FRANCIS A.**

See Charles Winklehaus, SA6:Dec 66:129:4996

**DIKKERS, ROBERT D.**

Brick Bearing Walls for Multi-Story Structures, with John C. Grogan, CE:Sept 66:76

**DILLINGHAM, JAMES H.**

See John L. Cleasby, SA2:Apr 66:1:4755

**DI MAGGIO, FRANK L.**

Network Analysis of Structures, with William R. Spillers, EM3:Jun 65:169:4376  
Corr: EM2:Apr 66:294:4747  
TR:131:122

**DING, JOHN Y.**

Dsc, IR1:Mar 66:104:4700, of "Inflow Hydrographs from Large Unconfined Aquifers", IR2:Jun 65:21:4357

**DIRASIAN, HENRY A.**

Dsc, SA5:Oct 66:131:4920, of "Effects of N<sub>2</sub> and CO<sub>2</sub> on Anaerobic Digestion", SA2:Apr 66:83:4771

**DISTEFANO, JOSE N.**

Creep Buckling of Slender Columns, ST3:  
Jun 65:127:4369  
Dsc: Zdenek P. Bazant, ST1:Feb 66:489:4638

**DIXON, SCHAEFER J.**

Needed: Local Executive Secretaries (The Younger Viewpoint) CE:June 66:94

**DOBBINS, WILLIAM E.**

BOD and Oxygen Relationships in Streams, SA3:Jun 64:53:3949  
Corr: SA6:Dec 64:131:4171  
Dsc: William O. Lynch, SA1:Feb 65:82:4213;  
Edward L. Thackston and Peter A. Krenkel, SA1:Feb 65:84:4213; G. Knowles, SA1:Feb 65:88:4213  
Clo: SA5:Oct 65:49:4492  
TR:131:225  
See Alvin S. Goodman, SA6:Dec 66:1:5031

**DOCKERY, BURTIS R.**

Dsc: G. Nelson Fizzard, CE:Apr 65:65  
Dsc, CE:Jan 66:73 of letter on shortage of highway engineers, CE:Nov 65:99

**DODGE, ALEXANDER**

Influence Functions for Beams on Elastic Foundations, ST4:Aug 64:63:4002  
Dsc: Donald McDonald and John F. Ely, ST2:Apr 65:187:4285; S. Sergeev, ST2:Apr 65:182:4285; Bruno Barbarito, ST2:Apr 65:194:4285; Lyndon C. Reese, ST3:Jun 65:277:4346  
Clo: ST1:Feb 66:451:4638  
TR:131:102

**DODGE, NICHOLAS A.**

Flow Measurements at Columbia River Power Plants, HY2:Mar 65:125:4263  
Dsc: J. Whitaker, HY5:Sep 65:321:4464;  
Misu B. Goldstein, HY6:Nov 65:194:4527;  
Joseph M. Colonell, HY6:Nov 65:199:4527;  
Richard W. Leonard, HY6:Nov 65:199:4527;  
John Savini, HY1:Jan 66:86:4596  
Clo: HY4:Jul 66:125:4859  
TR:131:760

**DOERING, E. J.**

Engineering Aspects of the Reclamation of Sodic Soils with High-Salt Waters, with R.C. Reeve, IR4:Dec 65:59:4588

- DOERING, E. J. Continued**  
Dsc: Jerald E. Christiansen, IR3:Sept 66:78:4892
- DOMNY, FLOYD E.**  
Design of Desilting Works for Irrigation Systems, IR4:Dec 66:1:4998
- DONG, STANLEY B.**  
Analysis of Laminated Shells of Revolution, EM6:Dec 66:135:5044
- DONG, YEN H.**  
Asbestos-Cement Pipe for a Tower, CE:Oct 66:46
- DONNELLY, CHARLES A.**  
Straight Drop Spillway Stilling Basin, with Fred W. Blaisdell, HY3:May 65:101:4328  
Dsc: Walter Rand, HY1:Jan 66:102:4596  
Clo: HY4:Jul 66:140:4859  
TR:131:732
- DONSKY, BENJAMIN**  
Dsc, with Franklin G. DeFazio, HY1:Jan 66:144:4596, of "Water-Hammer Charts for Centrifugal Pump Systems", HY3:May 65:247:4343
- DORSCH, ROBERT G.**  
See Don J. Wood, HY2:Mar 66:83:4716
- DOUTY, RICHARD T.**  
High Strength Bolted Moment Connections, with William McGuire, ST2:Apr 65:101:4298  
Dsc: Eugene Chesson, Jr., ST1:Feb 66:472:4638  
Clo: ST3:Jun 66:255:4831  
TR:131:565
- DOVE, LLOYD A.**  
A Cadastral Survey for Emerging Afghanistan, with Neymatullah, CE:Oct 66:41
- DOWNS, DALLAS I.**  
Transmission Tower Foundations, with Robert L. Chieurzzi, PO2:Apr 66:91:4750  
See James F. O'Sullivan, PO2:Apr 66:115:4751
- DRAKE, RONALD L.**  
See Irwin Remson, HY1:Jan 65:55:4196
- DRINKER, PHILIP A.**  
See Ralph R. Rumer, Jr., HY5:Sept 66:155:4914
- DRISCOLL, GEORGE C., JR.**  
See Victor Levi, ST5:Oct 65:103:4509  
See Roger G. Slutter, ST2:Apr 65:71:4294
- DRNEVICH, VINCENT P.**  
Transient Loading Tests on a Circular Footing, with John R. Hall, SM6:Nov 66:153:4979
- DRUDING, HENRY A.**  
See, Irvine P. Gould
- DUBA, JOHN G.**  
Interprofessional Relationships in Environmental Design, CE:Feb 66:49
- DUBOIS, DONALD P.**  
See Richard S. Green, SA1:Feb 66:55:4652
- DUDLEY, ROBERT A.**  
Ice Core for a Pervious Earth Dam 350 Miles North of Arctic Circle, with Robert D. Buchanan and Howard Peoples, CE:Dec 66:48
- DUMM, LEE D.**  
Dsc, IR2:Jun 66:102:4829, of "Steady Drainage of Two-Layered Soil", IR3:Sep 65:51:4474
- DUNCAN, JAMES M.**  
Anisotropy and Stress Reorientation in Clay, with H. Bolton Seed, SM5:Sept 66:21:4903  
Strength Variation Along Failure Surfaces in Clay, with H. Bolton Seed, SM6:Nov 66:81:4971
- DUNHAM, CLARENCE W.**  
Dsc, CE:Jan 66:72, on principles for civil engineering education
- DUNHAM, JAMES W.**  
Dsc, SM1:Jan 66:179:4594, of "Criteria for Acceptability of Papers: Report of the Committee on Publications of the Soil Mechanics and Foundations Division", SM3:May 65:51:4326
- DUNN, CHARLES PUTNAM**  
Memoir of, TR:131:893
- DURELLI, AUGUST J.**  
Large Strain Analysis and Stresses in Linear Materials, with Alfred P. Mulzet, EM3:Jun 65:65:4367  
Corr: EM2:Apr 66:293:4747  
TR:131:139
- DURKEE, JACKSON L.**  
Plastic Cable Covering Introduced on California Suspension Bridge, with George B. Shaw, Jr., CE:Feb 66:63
- DUTRO, HOWARD B.**  
Wyoming--Rock Mechanics Study in Highway Tunnels Determines Design of Supports and Lining, CE:Feb 66:60
- DUTT, OM**  
Dsc, ST5:Oct 66:336:4922, of "Analysis of Nonprismatic Continuous Structures", ST1:Feb 66:1:4647
- DUTTWEILER, DAVID W.**  
Dsc, SA6:Dec 66:124:4996, of "Predicting Temperatures in Rivers and Reservoirs", SA1:Feb 66:115:4675
- DWYER, TIMOTHY J.**  
Plastic Behavior of Tubular Beam Columns, with Theodore V. Galambos, ST4:Aug 65:153:4446  
Corr: ST4:Aug 66:58:4871  
TR:131:537



**EARL, AUSTIN WILMOTT**

Memoir of, TR:131:894

**EASTMAN, LOTON R.**

A Church of Unusual Design, CE:Sept 66:54

**EAVES, ELSIE**

How Contractors Organize Their Cost Estimating and Control: Report by the Subcommittee on Organization of Estimating Departments, of the Committee on Estimating and Cost Control, ASCE, CO:Jan 66:53:4631

Dsc: John W. Hackney, CO:Sept 66:86:4889

**EBEIDO, IBRAHIM A.**

See Robert D. Stoll, SM4:Jul 65:107:4406

**EBERHARDT, ANDREW**

Penstock Codes--U.S. and Foreign Practice, PO2:Apr 66:137:4752

**EBNER, ALAN M.**

See David P. Billington, EM2:Apr 66:61:4769

**EDEN, EDWIN W., JR.**

Planning Construction of Four-River Basin Project, IR3:Sept 66:1:4897

Dsc, WW4:Nov 66:49:4957, of "Practical Tonnage Capacity of Canalized Waterways", WW1:Feb 66:33:4644

**EDGEcombe, ARTHUR R.B.**

Dsc, IR1:Mar 66:112:4700, of "Rice Irrigation", IR3:Sep 65:35:4472

**EGAN, WILLIAM A.**

Alaska Needs Engineers as Citizens, CE:Mar 66:43

**EGIAZAROFF, I.V.**

Calculation of Nonuniform Sediment Concentrations, HY4:Jul 65:225:4417

Dsc: Hans A. Einstein, HY2:Mar 66:439:4708; J.G. Herberston and David I.H. Barr, HY2:Mar 66:441:4708

**EINSTEIN, HANS A.**

Loop Systems for Measuring Sand-Water Mixtures, with Walter H. Graf, HY1:Jan 66:1:4608

Dsc, HY2:Mar 66:439:4708, of "Calculation of Nonuniform Sediment Concentrations", HY4:Jul 65:225:4417

See Calvin G. Clyde, EM2:Apr 66:251:4800

**ELATA, CHAIM**

Dsc, HY3:May 66:124:4805, of "Turbulent Non-Newtonian Profiles in Pipes", HY6:Nov 65:37:4532

**EL-BAROUDI, HASSAN M.**

Dsc, SA3:Jun 66:27:4830, of "Evaluation of Hydraulic Efficiency of Sedimentation", SA5:Oct 65:37:4523

**EL DARWISH, I. A.**

Torsion of Structural Beams, with Bruce G. Johnston, ST1:Feb 65:203:4228

Corr: ST1:Feb 66:471:4638

TR:131:428

**ELDER, REX A.**

Hydraulic Engineering Aspects of Water Quality Management, with Peter A. Krenkel, James M. Symons, G. Fred Lee, Frank L. Parker, Donald J. O'Connor, George T. Oriob, Paul C. Benedict, Norman H. Brooks, and Glenn H. Von Gunten, HY6:Nov 66:61:4975

Dsc, with Walter O. Wunderlich, SA6:Dec 66:120:4996, of "Predicting Temperatures in Rivers and Reservoirs", SA1:Feb 66:115:4675

See Donald R.F. Harleman, HY4:Jul 65:43:4398

**EL-DIB, M.A.**

Dichromate Versus Ceric Sulphate in COD Determination, with F.M. Ramadan, SA2:Apr 66:97:4795

Dsc: James M. Symons, SA6:Dec 66:151:4996

**ELDRIDGE, WINFIELD H.**

Preserving Survey Monuments Despite Highway Construction, CE:May 65:40

Dsc: Richard Mayer, CE:Sep 65:74

TR:131:321

Memoir of, TR:131:895

Dsc, SU2:Jun 66:57:4832, of "Current Problems in Property Location", SU2:Sept 65:1:4465

Dsc, SU2:Jun 66:67:4832, of "A Research Program in Surveying and Mapping: Progress Report of the Research Committee of the Surveying and Mapping Division", SU1:Jan 66:25:4629

**EL-GAALY, MOHAMED ALI**

Analysis of Multicell Box Gates for Dry Docks, ST3:Jun 65:171:4380

TR:131:435

**ELIASSEN, ROLF**

See Bernard C. McBeath, SA2:Apr 66:147:4803

**ELIGATOR, MORTON H.**

Load-Bearing Walls of Precast Concrete for Multi-Story Buildings, CE:Sept 66:62

**ELLYIN, F.**

Elastic Stress Field in a Plate with a Skew Hole, with N.C. Lind and A.N. Sherbourne, EM1:Feb 66:1:4651

**ELMS, DAVID G.**

Stresses in Hyperboloids under Edge Loadings, with David P. Billington and Robert Mark, EM4:Aug 65:89:4441

TR:131:498

The Structural Action of Pile Cluster Dolphins, with Werner E. Schmid, WW4:Nov 65:11:4529

TR:131:816

**EMMONS, WALTER F.**

Dsc, SM4:Jul 66:94:4860, of "Interstitial Pressure on Rock Foundations of Dams", SM5:Sept 65:65:4484

**ENGELBRECHT, R.S.**

See Miriganka M. Ghosh, SA1:Feb 66:199:4687  
See Ronald L. Peterson, SA1:Feb 66:229:4693

**ENGELUND, FRANK**

Hydraulic Resistance of Alluvial Streams, HY2:  
Mar 66:315:4739

Dsc: David I. H. Barr and John G. Herbertson, HY6:Nov 66:257:4959; Thomas Maddock, Jr., HY6:Nov 66:260:4959

**ENGLE, WARD W.**

See Floyd P. Lacy, CE:Jul 65:50

**EMMETT, WILLIAM W.**

Errors in Piezometric Measurement, with James R. Wallace, HY6:Nov 64:45:4126

Dsc: Kotha K. Rao and Sedat Sami, HY3: May 65:379:4304; Chesley J. Posey, HY5: Sep 65:199:4464; N. Rajaratnam, HY5: Sep 65: 200:4464

Clo: HY2:Mar 66:348:4708

Corr: HY4:Jul 66:121:4859

TR:131:217

**EPAIN, RAYMOND**

Elastic Loading of High Pressure Cylinders, with Boris Vodar, EM5:Oct 64:363:4108

TR:131:775

**ERECH, S. A.**

Cast-in-Place Concrete Connects Precast Members, CE:Mar 66:64

**EREMIN, ANATOL A.**

Dsc, ST4:Aug 66:92:4871, of "Analysis of Continuous Folded Plate Surface", ST6:Dec 65: 117:4555

Dsc, ST1:Feb 66:497:4638, of "Analysis of Deflections in Elastic-Plastic Frames", ST3: Jun 65:197:4381

Dsc, ST4:Aug 66:97:4871, of "Buckling of Elastically Restrained Columns", ST6:Dec 65: 159:4574

Dsc, ST5:Oct 66:380:4922, of "Dynamic Hinge Concept for Beam Vibrations", ST1:Feb 66: 365:4689

Dsc, ST2:Apr 66:419:4759, of "Importance of Strain Hardening in Plastic Design", ST4: Aug 65:23:4424

Dsc, ST5:Oct 66:383:4922, of "Limit Design by Successive Moment Distribution", ST1:Feb 66: 405:4691

Dsc, ST3:Jun 66:261:4831, of "Strength of Single-Story Steel Frames", ST5:Oct 65:81:4507

Dsc, ST3:Jun 66:268:4831, of "Structural Subassemblages Prevented from Sway", ST5:Oct 65: 103:4509

Dsc, ST2:Apr 66:426:4759, of "Studies of the Ductility of Steel Structures", ST4:Aug 65:125: 4444

**ETKES, PERRY W.**

The decimal equivalents for  $1/7$ ,  $2/7$ , etc., CE:Oct 65:81

Dsc: T. T. Fatehi, CE:May 66:76

**ETTINGER, MORRIS B.**

How to Plan an Inconsequential Research Project, SA4:Aug 65:19:4437

Dsc: R. Robinson Rowe, SA6:Dec 65:65:4546;

James H. Symons, SA6:Dec 65:66:4546; Paul

F. Keim, SA1:Feb 66:329:4637; Remy L. A. de

Jong, SA1:Feb 66:330:4637; Asit K. Biswas,

SA2:Apr 66:179:4754

Clo: SA5:Oct 66:110:4920

**EVA, JOHN R.**

See James R. Carr, AT2:Oct 65:39:4490

**EVERSON, JOHN E.**

The Civil Engineer in Rapid Transit, CE:Jan 66:60

**EYER, JOHN M.**

Pumping Plant Operation and Maintenance

Costs, IR4:Dec 65:37:4579

Dsc: Edward J. Low, IR2:Jun 68:104:4829

Clo: IR4:Dec 66:72:4995

**FAIR, GORDON M.**

Protecting the Purity of Inland Waters, SA6: Dec 64:1:4148

Dsc: N. T. Veatch, SA4:Aug 65:53:4421; E.

Sherman Chase, SA1:Feb 66:285:4637

Clo: SA2:Apr 66:171:4754

**FALK, MARK MARION**

Memoir of, TR:131:896

**FALTYN, NORBERT E.**

See Louis J. Goodman, CO1:May 65:125:4335

**FAN, LOH-NIEN**

Dsc, with Norman H. Brooks, HY2:Mar 66:

423:4708, of "Horizontal Jets in Stagnant Fluid

of Other Density", HY4:Jul 65:139:4411

Dsc, with Norman H. Brooks, SA1:Feb 66:296:

4637, of "Turbulent Mixing Phenomena of Ocean

Outfalls", SA2:Apr 65:33:4297

**FAN, TAU-CHAO**

Dsc, EM6:Dec 66:259:4994, of "On the Bending of Spherical Shells", EM3:Jun 66:53:4857

**FANG, PEN JENG**

See Richard N. White, ST2:Apr 66:175:4782

**FANNING, WILLIAM R.**

Structural Analysis of the Haystack Antenna,

ST1:Feb 66:431:4698

Dsc: Jacob Feld, ST4:Aug 66:110:4871

**FARELL, CESAR**

Dsc, HY2:Mar 66:395:4708, of "Critical Anal-

ysis of Open-Channel Resistance", HY4:Jul 65:

1:4387

**FARMER, LARRY E.**

Nonlinear Solution for Folded Plate Structures,

with John E. Breen, ST2:Apr 66:229:4786

**FASULLO, EUGENE**

See Lier, Arne, CE:Aug 66:32

**FATEHI, T. T.**

Dsc, CE:May 66:76, on Perry W. Etkes position on fraction equivalents, CE:Oct 65:81

**FAUSTINO, NORBERTO L.**

See Eugene Chesson, Jr., ST5:Oct 65:155:4512

**FEAD, JOHN W.N.**

Dsc, SM4:Jul 66:105:4860, of "Pore Air Pressure in Soil Subjected to Shock Waves", SM6:Nov 65:41:4541

**FEESER, LARRY J.**

See Chuan C. Feng, EM1:Feb 66:25:4656

**FELD, JACOB**

First International Congress on Rock Mechanics, CE:Dec 66:58

Tolerance of Structures to Settlement, SM3:May 65:63:4336

Dsc: William H. Gotolski, SM5:Sept 65:127:4457; Saki Rosenhaupt, SM6:Nov 65:131:4525; Pablo Girault, SM1:Jan 66:182:4594  
Clo: SM3:May 66:97:4807  
TR:131:398

Dsc, ST4:Aug 66:110:4871, of "Structural Analysis of the Haystack Antenna", ST1:Feb 66:431:4698

Dsc, SM4:Jul 66:113:4860, of "Piling Difficulties in the New York Area", SM1:Jan 66:43:4617

Dsc, CE:Jan 66:73, on representation of ASCE members in proceedings

Dsc: John D. Nelson and Richard A. Wetzel; Robert B. Rhodes, CE:Mar 66:74

**FELDMAN, HARVEY S.**

See John Lowe, III, SM5:Sep 64:69:4058

**FENG, CHUAN C.**

Flow Graph Solutions of Band Matrix Problems, with Larry J. Feeser, EM1:Feb 66:25:4656

Dsc: T. C. T. Ting, EM3:Jun 66:111:4828; Srisakdi Charmonman, EM5:Oct 66:135:4921; Nand K. Sharma and Richard N. White, EM5:Oct 66:136:4921; T. E. Kirchgessner, EM5:Oct 66:137:4921

**FENGER, FRITS H.**

The Metric System Now, CE:Dec 65:49  
TR:131:740

**FENVES, STEVEN J.**

Guide to Development and Use of Electronic Computer Programs: Introduction, ST6:Dec 64:1:4151

Dsc: Earle J. Turner, ST4:Aug 65:205:4432  
Clo: ST1:Feb 66:461:4638  
TR:131:261

Guide to Development and Use of Electronic Computer Programs: Program Planning, ST6:Dec 64:19:4153  
TR:131:15

Structural Analysis by Networks, Matrices, and Computers, ST1:Feb 66:199:4674

Dsc: Edward L. Wilson, ST4:Aug 66:106:4871  
Tabular Decision Logic for Structural Design, ST6:Dec 66:473:5024

See Charles L. Miller, ST6:Dec 64:7:4152  
See Edward L. Murphee, Jr., ST6:Dec 66:167:5008

**FERGUSON, WAYNE J.**

See Billy R. Mahaffay, WW4:Nov 66:41:4957

**FERTIS, DEMETER C.**

Dynamic Hinge Concept for Beam Variations, ST1:Feb 66:365:4689

Dsc: Anatol A. Eremin, ST5:Oct 66:380:4922

**FIALKOW, MORRIS N.**

Dsc, ST4:Aug 66:91:4871, of "Analysis of Continuous Folded Plate Surface", ST6:Dec 65:117:4555

**FIEGEN, MICHAEL**

See Milton Brumer, CO2:Mar 66:23:4742

**FIERING, MYRON B.**

Multivariate Technique for Synthetic Hydrology, HY5:Sep 64:43:4027

Dsc: Leo R. Beard, HY3:May 65:334:4304; Theodore G. Roefs, HY3:May 65:335:4304  
Clo: HY5:Sep 65:182:4464

Addendum to clo: HY6:Nov 65:168:4527  
TR:131:107

Dsc, HY2:Mar 66:447:4708 of, "Parametric Hydrology and Stochastic Hydrology: Report of the Committee on Surface Water Hydrology", HY6:Nov 65:119:4539

See Nobuhiro Yotsukura, HY5:Sep 64:83:4046

**FILHO, FERNANDO VENANCIO**

Dynamic Influence Lines of Beams and Frames, ST2:Apr 66:371:4797

**FINKEL, EDWARD B.**

Composite Design Cuts Cost of Small Warehouse, CE:Aug 65:46  
TR:131:469

**FINN, W. D. LIAM**

Earthquake Stability of Cohesive Slopes, SM1:Jan 66:1:4602

**FISCHER, FRED, JR.**

Cable-Supported Warehouse Roof Provides Large Open Area, CE:Sept 66:43  
Dsc, Walter H. Wheeler, CE:Dec 66:61

**FISCHER, H. O.**

Texas--Houston Airport, Study in Engineer-Contractor Harmony, with Frank Newnam, CE:Sept 65:32  
TR:131:553

**FISCHER, LAWRENCE**

Dsc, ST5:Oct 66:391:4922, of "Multiple Folded Plate Structures", ST2:Apr 66:247:4791

**FISCHL, RUDOLPH F.**

Missouri--Arc Welding Speeds Construction of  
Springfield Office Building, with Georg Klatte,  
CE:Feb 65:60  
TR:131:133

**FISHER, GORDON P.**

See George Pincus, ST2:Apr 66:323:4792

**FISHER, JOHN N.**

See Geoffrey L. Kulak, ST4:Aug 66:102:4871

**FISHER, JOHN W.**

Analysis of Bolted Butt Joints, with John L.  
Rumpf, ST5:Oct 65:181:4513  
Corr: ST4:Aug 66:79:4871  
TR:131:738  
Behavior of Fasteners and Plates with Holes,  
ST6:Dec 65:265:4587  
TR:131:854  
Criteria for Designing Bearing-Type Bolted  
Joints, with Lynn S. Beedle, ST5:Oct 65:129:4511  
TR:131:751  
See Richard J. Christopher, ST2:Apr 66:19:  
4768  
See Gordon H. Sterling, ST5:Oct 65:279:4515  
See Gordon H. Sterling, ST3:Jun 66:101:4845  
See James J. Wallaert, ST3:Jun 65:99:4368

**FITZSIMONS, NEAL**

See "Who Am I?" each issue of CIVIL ENGI-  
NEERING January to November; changed to  
series on "Benchmarks of Civil Engineering His-  
tory" beginning with December 1966

**FIZZARD, G. NELSON**

Dsc, CE:Apr 66:65, on Burtis R. Dockery's  
position on unions, CE:Jan 66:73

**FLATHAU, WILLIAM J.**

Research in Soil Structure Interaction, ST4:  
Aug 65:35:4427  
TR:131:502  
See Don R. Denton, EM3:Jun 66:17:4848

**FLAXMAN, ELLIOTT M.**

Dsc, HY6:Nov 66:245:4959, of "Sediment  
Transportation Mechanics: Initiation of Motion",  
by the Task Committee on Preparation of Sedi-  
mentation Manual, ASCE, HY2:Mar 66:291:4738

**FLEMING, JULIAN R.**

Dsc, on the need for balanced engineering  
faculties, CE:June 66:78

**FLETCHER, GORDON F. A.**

Standard Penetration Test: Its Uses and Abuses,  
SM4:Jul 65:67:4395

Dsc: Victor J. Lo Pinto, SM1:Jan 66:195:  
4594; Henry A. Mohr, SM1:Jan 66:196:4594;  
James J. Schnabel, SM2:Mar 66:184:4701;  
Russell F. Geisser, SM2:Mar 66:184:4701;  
John E. Stubbings, SM2:Mar 66:185:4701; Luis  
F. F. Renau, SM2:Mar 66:187:4701; Herbert O.  
Ireland, SM2:Mar 66:189:4701; Benjamin K.  
Hough, SM2:Mar 66:190:4701; James D. Par-  
sons, SM3:May 66:103:4807; John H. Schmert-  
mann, SM5:Sept 66:130:4890

**FLOOD, LEO P.**

Air Pollution from Incinerators--Causes and  
Cures, CE:Dec 65:44  
TR:131:734

**FLORES, ARMANDO**

See Jorge I. Bustamante, EM5:Oct 66:115:4954

**FLYNN, F. J.**

Processing Streamflow Data: Task Committee  
on Processing Streamflow Data, Committee on  
Surface Water Hydrology, ASCE, HY2:Mar 66:  
145:4725  
Dsc: Frank H. Rainwater, HY5:Sept 66:277:  
4891; John R. Crippen, HY6:Nov 66:228:4959;  
William L. Northrop, HY6:Nov 66:229:4959

**FOK, THOMAS D. Y.**

Analysis of Nonprismatic Continuous Struc-  
tures, with Thomas F. Mosure, ST1:Feb 66:  
1:4647  
Dsc: Ralph R. Mozingo, ST4:Aug 66:100:  
4871; Allen E. Crenshaw, ST5:Oct 66:327:4922;  
Mellor P. Poucher, ST5:Oct 66:334:4922; Om  
Dutt, ST5:Oct 66:336:4922

**FOK, YU-SI**

Analysis of Water Advance in Surface Irri-  
gation, with A. Alvin Bishop, IR1:Mar 65:99:  
4259

Dsc: S.A. Gavande and S.A. Taylor, IR3:  
Sep 65:96:4453; Ernest T. Smerdon and Otto  
Wilke, IR4:Dec 65:98:4550  
Clo: IR3:Sept 66:55:4892  
TR:131:669

One-Dimensional Infiltration into Homogeneous  
Soil, with Vaughn E. Hansen, IR3:Sept 66:35:  
4912

**FORD, ARTHUR C.**

See M.D. Morris, SA1:Feb 65:1:4220

**FORRAY, MARVIN J.**

See Martin A. Goldberg, EM3:Jun 65:13:4356

**FORRESTAL, MICHAEL J.**

Response of a Cylindrical Shell to an Elastic  
Wave, with Dronnadula V. Reddy and George  
Herrmann, EM3:Jun 65:1:4354  
TR:131:52

**FORSYTH, BENJAMIN**

See Milton Brumer, CO2:Mar 66:23:4742

**FORTEY, JOSEPH W.**

See F. Sananes, HY3:May 66:117:4805

**FORTINO, ERNEST P.**

Flow Measurement Techniques for Hydraulic  
Dredges, WW1:Feb 66:109:4683

Dsc: Rick A. Denning, WW3:Aug 66:106:  
4872; Marquand S. Gorton, WW3:Aug 66:108:  
4872; Edward J. Klein, WW4:Nov 66:60:4957;  
Carl P. Kaufmann, WW4:Nov 66:61:4957

**FOSTER, CHARLES R.**

Quality Control of Asphalt Pavement, CO3:  
Sept 66:41:4902

**FOSTER, HERBERT B., JR.**

Nutrient Removal by Effluent Spraying, with  
Paul C. Ward and Arnold A. Prucha, SA6:  
Dec 65:1:4556  
TR:131:820

**FOWLER, H. S.**

Dsc, CE:July 66:70, on an idea for safer  
automobiles

**FOWLER, JOHN W.**

Virginia--Construction of Chesapeake Light  
Station, CE:Nov 65:76  
TR:131:650

**FOX, DAVID M.**

Experimental Evaluation of Sand Filtration  
Theory, with John L. Cleasby, SA5:Oct 66:61:  
4941

**FOX, G. T. J.**

Dsc, SA1:Feb 66:326:4637, of "Filtration  
Through Size-Graded Media", SA3:Jun 65:89:  
4378

**FRALICH, ROBERT W.**

Combined Aerodynamic and Structural Design  
of Lightweight Flight Structures, CE:Aug 65:60  
TR:131:505

**FRANKEL, RICHARD J.**

Turbulent Mixing Phenomena of Ocean Outfalls,  
with James D. Cumming, SA2:Apr 65:33:4297  
Dsc: C. Abraham, SA6:Dec 65:60:4546; Loh-  
Nien Fan and Norman H. Brooks, SA1:Feb 66:  
296:4637  
TR:131:728

Dsc, with James D. Cumming, HY4:Jul 66:  
157:4859, of "Horizontal Jets in Stagnant Fluid  
of Other Density", HY4:Jul 65:139:4411

**FRANZINI, JOSEPH B.**

Dsc, HY1:Jan 66:127:4596, of "Capacity Tests  
in Large Concrete-Lined Canals", HY3:May 65:  
189:4337

Dsc, SA5:Oct 66:126:4920, of "Manifolds, Ro-  
tating and Stationary", SA1:Feb 66:269:4696

**FRASER, HARVEY R.**

Electronic Computation in Engineering Educa-  
tion, with Shu-tien Li, CE:Mar 66:71

**FRATAR, THOMAS J.**

Civil Engineering in Urban Transportation  
Planning, HW2:Dec 65:11:4560

Dsc: Hyounkey Hong, HW2:Oct 66:108:4919;  
Paul W. Shuldiner, HW2:Oct 66:109:4919

**FREDERIKSEN, HARALD D.**

Dsc, HY1:Jan 66:128:4596, of "Capacity Tests  
in Large Concrete-Lined Canals", HY3:May 65:  
189:4337

**FREE, JOSEPH C.**

See Henry M. Paynter, Jr., HY2:Mar 66:379:  
4708

**FREUDENTHAL, ALFRED M.**

The Analysis of Structural Safety, with Jewell  
M. Garretts and Masanobu Shinozuka, ST1:  
Feb 66:267:4682

Dsc: Jack R. Benjamin, ST3:Jun 66:293:  
4831; Alexander P. Hrennikoff, ST5:Oct 66:  
362:4922; Carl J. Turkstra, ST5:Oct 66:366:  
4922; Milik Tichy and Milos Vorlicek, ST5:  
Oct 66:368:4922

**FRIEDLAND, H. K.**

Dsc, AT1:Jan 66:172:4595, of "Airport Acces-  
sibility Affects Passenger Development", AT1:  
Apr 65:47:4302

Dsc, AT1:Jan 66:161:4595, of "Intercity Travel  
Characteristics", AT1:Apr 65:1:4296

**FRIEDMAN, MORTON B.**

Spherical Elastic Plastic Shock Propagation,  
with Hans H. Bleich and Raymond Parnes, EM3:  
Jun 65:189:4377  
TR:131:76

**FRIEND, FRED FORAKER**

Memoir of, TR:131:897

**FUKUMOTO, YUHSI**

Inelastic Lateral-Torsional Buckling of Beam  
Columns, with Theodore V. Galambos, ST2:  
Apr 66:41:4770

**FULTON, ROBERT E.**

See Nancy Jane Cyrus, ST6:Dec 66:459:5023

**GAAFAR, IBRAHIM A.**

Dsc, ST5:Oct 66:324:4922, of "Comparison of  
Simplified Theories for Folded Plates", ST6:  
Dec 65:1:4552

**GAGNON, ANDRÉ**

See Ernest Pariset, WW4:Nov 64:55:4131  
See Ernest Pariset, HY6:Nov 66:1:4965

**GAITHER, WILLIAM S.**

See David P. Billington, EM2:Apr 66:61:4769

**GALAMBOS, THEODORE V.**

Strength of Round Steel Columns, ST1:Feb 65:  
121:4219

Dsc: Robert A. Williamson, ST5:Oct 65:361:  
4498; Bruce G. Johnston, ST5:Oct 65:363:4498  
Clo: ST2:Apr 66:396:4759  
TR:131:257

Studies of the Ductility of Steel Structures,  
with Maxwell G. Lay, ST4:Aug 65:125:4444  
Dsc: Anatol A. Eremin, ST2:Apr 66:426:4759  
Clo: ST5:Oct 66:321:4922  
TR:131:812

Dsc, ST5:Oct 66:392:4922, of "Buckling of  
Eccentrically Loaded Steel Columns", ST2:Apr  
66:351:4796

**GALAMBOS, THEODORE V.** Continued  
 Disc, EM3:Jun 66:110:4828, of "Inelastic  
 Lateral-Torsional Buckling of Beam Columns",  
 EM8:Dec 65:21:4563

See Peter F. Adams, ST2:Apr 66:411:4759  
 See Yuhshi Fukumoto, ST2:Apr 66:41:4770  
 See Timothy J. Dwyer, ST4:Aug 65:153:4446  
 See Maxwell G. Lay, ST6:Dec 65:67:4566  
 See Maxwell G. Lay, ST2:Apr 66:207:4785

**GALAY, VICTOR J.**

Disc, HY6:Nov 66:223:4959, of "Inland Delta  
 Building Activity of Kosi River", HY2:Mar 66:  
 111:4722

Disc, HY6:Nov 66:213:4959, of "Use of Baffles  
 in Open Channel Expansions", HY2:Mar 66:1:  
 4703

**GALBREATH, ROBERT V.**

Computer Program for Leveling Resource  
 Usage, CO1:May 65:107:4327  
 Err: CO3:Sept 66:84:4889  
 TR:131:596

**GALLER, WILLIAM S.**

Analysis of Biological Filter Variables, with  
 Harold B. Gotaas, SA6:Dec 64:59:4174

Disc: Karl L. Schulze, SA3:Jun 65:129:4353;  
 John W. Hernandez, Jr., SA3:Jun 65:131:4353;  
 P.J.A. Zeller, SA4:Aug 65:56:4421; Wilber  
 A. Blain and Archie J. McDonnell, SA4:Aug 65:  
 57:4421; S.J. Arceivala and V. Hanumanalu,  
 SA4:Aug 65:61:4421  
 Clo: SA1:Feb 66:287:4637  
 TR:131:237

Optimization Analysis for Biological Filter  
 Design, with Harold S. Gotaas, SA1:Feb 66:163:  
 4684

Disc: Stephen J. Wersan, SA5:Oct 66:116:  
 4920, Rolf A. Deininger, SA6:Dec 66:126:4996  
 Corr: SA8:Dec 66:128:4996

**GANNON, JOHN J.**

River and Laboratory BOD Rate Considera-  
 tions, SA1:Feb 66:135:4681

Disc: Charles G. Gunnerson, SA5:Oct 66:114:  
 4920

**GARCIA, DANILO M.**

High Density Vehicular Flow/Density Relation-  
 ships, with John Hugh Jones, HW2:Dec 65:37:  
 4561

Disc: John J. Haynes, HW2:Oct 66:113:4919;  
 Adolf D. May, Jr., HW2:Oct 66:115:4919;  
 Joseph L. Schofer, HW2:Oct 66:116:4919

**GARDE, R. J.**

Resistance Relationships for Alluvial Channel  
 Flow, with Ranga K.G. Raju, HY4:Jul 66:77:  
 4869

**GARDNER, N. J.**

Disc, ST4:Aug 66:107:4871, of "Strength of  
 Reinforced Concrete Folded Plate Models",  
 ST1:Feb 66:351:4688

**GARG, SATYA PRAKASH**

Distribution of Head at a Rectangular Conduit,  
 HY4:Jul 66:11:4863

**GARRELT, JEWELL M.**

Disc, ST2:Apr 66:433:4759, of "Generalization  
 of Hardy Cross Method", ST5:Oct 65:57:4502  
 See Alfred M. Freudenthal, ST1:Feb 66:267:  
 4682

**GARREN, JOHN H.**

Disc, PP2:Dec 66:40:4992, of "Federal Em-  
 ployee-Management Cooperation: E.O. 10988",  
 PP1:May 66:19:4819

**GATEWOOD, B. E.**

Tri-Diagonal Matrix Method for Complex  
 Structures, with Norik Ohanian, ST2:Apr 65:27:  
 4291

Disc: T.C.T. Ting, ST5:Oct 65:401:4496;  
 Gerald M. Sturman and A. Robert Raab, ST6:  
 Dec 65:291:4547  
 Clo: ST3:Jun 66:254:4831

**GAUDY, ANTHONY F., JR.**

See Manmohan N. Bhatia, SA3:Jun 65:63:4371

**GAUM, CARL H.**

Disc, WW4:Nov 66:52:4957, of "Practical Ton-  
 nage Capacity of Canalized Waterways", WW1:  
 Feb 66:33:4644

**GEE, HERBERT C.**

Beach Nourishment from Offshore Sources,  
 WW3:Aug 65:1:4428  
 Disc: Ralph L. Rector, WW2:May 66:50:4808

**GEISSER, RUSSELL F.**

Disc, SM2:Mar 66:184:4701, of "Standard  
 Penetration Test: Its Uses and Abuses", SM4:  
 Jul 65:67:4395

**GELLERT, DENIS**

Disc, CE:Jan 66:73 on shortage of highway  
 engineers, CE:Nov 65:99

**GEMMELL, ROBERT S.**

See Jimmie E. Quon, SA1:Feb 66:328:4637

**GENT, ALLAN R.**

Disc, ST3:Jun 66:268:4831, of "Structural Sub-  
 assemblies Prevented from Sway", ST5:Oct 65:  
 103:4509

**GERAGHTY, JAMES J.**

See M.D. Morris, SA1:Feb 65:1:4220

**GERASIMENKO, PETER V.**

See Alexander C. Scordelis, ST1:Feb 66:351:  
 4688

**GERGELY, PETER**

Disc, ST5:Oct 66:377:4922, of "Strength of  
 Reinforced Concrete Folded Plate Models",  
 ST1:Feb 66:351:4688

**GERHARDT, LOUIS MATHEW**

Memoir of, TR:131:898

**GERLT, JOSEPH**

Qualities of an Executive (The Younger View-point), CE:July 66:82

Recognition as a Profession (The Younger View-point) CE:Feb 66:86

**GERWICK, BEN C., JR.**

International Congress on Prestressed Concrete Presents Challenges to American Engineers, CE:Oct 66:62

**GESSEL, RAYMOND C.**

Efficient Earth Moving--Job Layout and Supervision, CE:Apr 66:44

**GHISTA, DHANJOO N.**

Fully-Stressed Design for Alternative Loads, ST5:Oct 66:237:4952

Optimum Frameworks under Single Load System, ST5:Oct 66:261:4953

**GHOSH, KALYANMAY**

See Pijushkanti Som, ST4:Aug 64:49:3996

**GHOSH, MRIGANKA M.**

Precipitation of Iron in Aerated Ground Waters, with John T. O'Connor and R. S. Engelbrecht, SA1:Feb 66:199:4687

Dsc: Werner Stumm and Philip C. Singer, SA5:Oct 66:120:4920; Charles Winklehaus, Francis A. DiGiano, and Walter J. Weber, Jr., SA6:Dec 66:129:4996; James J. Morgan and Francis B. Birkner, SA6:Dec 66:137:4996

**GIBBS, ALBERT E.**

Dsc, IR3:Sept 66:73:4892, of "Irrigation Planning Using Climatological Data", IR4:Dec 65:1:4551

**GIBSON, ERIC J.**

See Ivor L. Pinkerton, PO1:Mar 64:33:3835

**GIBSON, ROBERT E.**

See Robert L. Schiffman, SM5:Sep 64:1:4043

**GILBERTSON, WESELY E.**

Scope of the Solid Waste Problem, SA3:Jun 66:1:4833

**GILL, FRANK L.**

Brittleness in Higher Strength Bolts, with Roger M. Hansen, ST1:Feb 66:89:4666

Dsc: Geoffrey L. Kulak and John N. Fisher, ST4:Aug 66:102:4871

**GILLESPIE, JAMES W.**

Analysis of Truss-Plate Structures, ST2:Apr 65:129:4300

Dsc: Anatol A. Eremin, ST6:Dec 65:297:4547

Clo: ST3:Jun 66:256:4831

TR:131:551

Dsc, ST4:Aug 66:69:4871, of "Generalization of Hardy Cross Method", ST5:Oct 65:57:4502

**GILLESPIE, T. J.**

Dsc, with K. M. King, HY5:Sept 66:230:4891, of "Potential Evaporation and River Basin Evaporation", HY6:Nov 65:67:4534

**GILLIM, ROBERT MACK, JR.**

Memoir of, TR:131:899

**GIRAULT, PABLO**

Dsc, SM1:Jan 66:182:4594, of "Tolerance of Structures to Settlement", SM3:May 65:63:4336

**GLADWELL, JOHN S.**

Hydraulic Studies of Large Penstock Trifurcation, with E. Roy Tinney, PO1:May 65:59:4334

Dsc: Eugen Ruus, PO1:Jan 66:140:4598; B. C. Syamala Rao and N. S. Lakshmana Rao, PO1:Jan 66:141:4598; Alan F. Babb, PO1:Jan 66:141:4598; David I. H. Barr, PO1:Jan 66:143:4598; Y. R. Reddy and Subir Karr, PO1:Jan 66:146:4598

**GLOVER, JOHN R.**

Dsc, with Sedat Sami and Frederick A. Locher, EM6:Dec 66:257:4894, of "Fluctuating Total Head in a Viscous Sublayer", EM2:Apr 66:251:4800

**GLOYNA, EARNEST F.**

See Calvin C. Patterson, SA3:Jun 65:17:4347

**GLUCKMANN, ALEXIS L.**

Reactor Containment Structures Abroad, PO2:Apr 66:59:4748

**GNAEDINGER, JOHN P.**

Dsc, SM4:Jul 66:111:4860, of "Alluvium Grouting Proved Effective on Alpine Dam", Nov 65:81:4544

**GOBLE, GEORGE G.**

Optimum Design of Mixed Steel Composite Girders, with Phillip V. DeSantis, ST6:Dec 66:25:5001

See Reza Razani, ST2:Apr 66:253:4787

**GODFREY, KNEELAND A., JR.**

Joins editorial staff of CIVIL ENGINEERING, CE:Oct 66:82

Renaissance in Rapid Transit, CE:Dec 66:28

**GOETSCH, HERBERT A.**

Breaking Par in Public Engineering Practice, FP2:Dec 66:19:5042

**GOFAS, TH. C.**

Greece--A Concrete Cutoff Wall for Earthfill Peneos Dam, CE:Jun 65:56  
TR:131:529

**GOLDBERG, JOHN E.**

Buckling of Multistory Buildings, EM1:Feb 65:51:4223

TR:131:60

A Study of Guyed Towers, with V. James Meyers, ST4:Aug 65:57:4438



**GOLDBERG, JOHN E.** Continued

Dsc: Robert A. Williamson and M. N. Mar-  
golin, ST2:Apr 66:419:4759  
Dsc, with Achyut V. Setlur, ST5:Oct 66:357:  
4922, of "Numerical Analysis of Translational  
Shell Roofs", ST1:Feb 66:223:4679  
See John S. Maybee, EM2:Apr 66:153:4788  
See Ralph M. Richard, ST6:Dec 65:33:4553

**GOLDBERG, MARTIN A.**

Stresses in a Uniformly Loaded Two-Layer  
Circular Plate, with Malcolm Newman and  
Marvin J. Forray, EM3:Jun 65:13:4356  
Dsc: Bennosuke Tanimoto and Hiroki Ham-  
ano, EM1:Feb 66:201:4646  
TR:131:652

**GOLDBLOOM, JOSEPH**

Dsc, CO1:Jan 66:86:4597, of "Designing  
Specifications--A Challenge", CO1:May 65:29:  
4315

**GOLDER, HUGH Q.**

State-of-the-Art of Floating Foundations, SM2:  
Mar 65:81:4278  
Dsc: William F. Swiger, SM5:Sep 65:126:  
4457; Pablo Girault, SM6:Nov 65:128:4525  
Clo: SM3:May 66:95:4807  
TR:131:327  
Dsc, SM1:Jan 66:188:4594, of "Role of the  
"Calculated Risk" in Earthwork and Foundation  
Engineering", SM4:Jul 65:1:4390

**GOLDSMITH, ROBERT H.**

Welded Connections for Space Frame Joints,  
ST5:Oct 64:63:4100  
Dsc: Henry J. Stetina, ST3:Jun 65:279:4346  
TR:131:712

**GOLDSMITH, WILLIAM A.**

Radioactive Equilibrium Time, with Eddie Joe  
Middlebrooks, SA6:Dec 66:85:5045

**GOLDSTERN, PETER P.**

See Ronald E. Neece, HY1:Jan 66:43:4620

**GOLE, CHINTAMAN V.**

Inland Delta Building Activity of Kosi River,  
with Shrikrishna V. Chitale, HY2:Mar 66:111:  
4722  
Dsc: Charles R. Neill, HY5:Sept 66:276:4891;  
Victor J. Galay, HY6:Nov 66:223:4959

**GOLLER, ROBERT R.**

Washington--The Legacy of Galloping Gertie  
(Tacoma Narrows Bridge), CE:Oct 65:50  
TR:131:704

**GOLUEKE, CLARENCE G.**

See William J. Oswald, SA4:Aug 65:23:4445

**GOLZE, ALFRED R.**

California--California Water Project, Power  
Plans and Demands, CE:Feb 65:35  
TR:131:100  
California--Steel pipe for South Bay Aqueduct,  
CE:Mar 65:36  
TR:131:166

Dsc & Reply, CE:Aug 66:73, of E.M.T.  
Ryder's concern on the safety of Oroville Dam,  
CE:Aug 66:73  
Educational Requirements for Water Resource  
Engineers, PP2:May 64:7:3890  
Dsc: Philip Z. Kirpich, PP1:Jan 65:48:4186  
TR:131:606

**GONON, RENE J.**

Dsc, SM2:Mar 66:162:4701, of "Role of the  
"Calculated Risk" in Earthwork and Foundation  
Engineering", SM4:Jul 65:1:4390

**GONZALEZ, J. M.**

Dsc, HW2:Oct 66:119:4919, of "Spiral Problems  
for an Electronic Computer", HW2:Dec 65:101:  
4590

**GOOCH, ROBERT S.**

Design Drouth Criteria, HY2:Mar 66:233:4731  
Dsc: Maxwell F. Burke, HY5:Sept 66:279:  
4891; Gordon R. Williams, HY6:Nov 66:240:  
4959; Paul F. Keim, HY6:Nov 66:241:4959

**GOODMAN, ALVIN S.**

Mathematical Model for Water Pollution Con-  
trol Programs, with William E. Dobbins, SA6:  
Dec 66:1:5031

**GOODMAN, LEON**

Dsc., CE:Apr 66:65, of "Esthetics for the High-  
way Designer," Gordon Kirjassoff, CE:Jan 66:69

**GOODMAN, LOUIS J.**

Preloading Results in Tank Foundation Econo-  
mies, with Norbert E. Faltyn, CO1:May 65:125:  
4335  
Errata: CO3:Sept 66:84:4889  
TR:131:843

Soil Surface Compaction with a Foam-Type  
Explosive, with A.R. Aidun and C.S. Grove,  
Jr., SM1:Jan 65:143:4211

Dsc: W.G. Shockley, S.J. Knight and J.L.  
McRae, SM4:Jul 65:239:4394; Delon Hampton,  
SM5:Sept 65:120:4457  
Clo: SM3:May 66:88:4807  
TR:131:534

**GOODMAN, RICHARD E.**

Earthquake-Induced Displacements in Sand  
Embankments, with H. Bolton Seed, SM2:Mar 66:  
125:4736  
See H. Bolton Seed, SM6:Nov 64:43:4128

**GORDON, BERNARD B.**

Control of Earth and Rockfill for Oroville Dam,  
with Robert K. Miller, SM3:May 66:1:4822

**GORDON, PAUL**

Connections for Precast Members Can Be  
Trouble-Free, CE:July 66:62  
Details that Cause Failure in Timber Truss  
Design, CE:Oct 65:74  
TR:131:667

- GORDON, WILLIAM E.**  
Dsc, CO1:Jan 66:94:4597, of "Arecibo Radar-Radio Telescope--Design and Construction", CO1:May 65:69:4323
- GORMLEY, JOHN T.**  
See, George Bugliarello, CE:Nov 66:69
- GORTON, MARQUAND S.**  
Dsc, WW3:Aug 66:108:4872, of "Flow Measurement Techniques for Hydraulic Dredges", WW1:Feb 66:109:4683
- GOSSCHALK, EDWARD M.**  
Dsc, PO1:Jan 66:138:4598, of "Hydroelectric Developments in the Scottish Highlands", PO1:May 65:23:4318
- GOSWAMI, ATUL**  
See Ronald E. Rathbun, HY6:Nov 66:251:4959
- GOTAAS, HAROLD S.**  
See William S. Galler, SA6:Dec 64:59:4174  
See William S. Galler, SA1:Feb 66:163:4684
- GOULD, IRVINE P.**  
Suspender Ropes for George Washington Bridge Pass Rigid Tests but Need Maintenance, with Henry A. Druding, CE:July 66:52
- GOULD, JAMES**  
See M.D. Morris, SA1:Feb 65:1:4220
- GOULD, JOHN FRANKLIN**  
Memoir of, TR:131:900
- GRACIE, GORDON**  
Double Summation of Errors in Aerial Triangulation, SU2:Sep 65:13:4467  
TR:131:527
- GRAF, WALTER H.**  
See Hans A. Einstein, HY1:Jan 66:1:4608
- GRANT, ARVID**  
Cascade Orchards Bridge--a Partially Prestressed Continuous Three-Span Bridge, CE:Aug 66:62
- GRANT, LELAND F.**  
Grouting a Dam Cutoff in Cavernous Limestone, with John S. Winefordner, CO3:Sept 66:1:4894  
Dsc, SM4:Jul 66:107:4860, of "British Practice for Grouting Granular Soils", SM6:Sept 65:57:4542
- GRAY, GEORGE A.**  
See Fred W. Beaufait, ST1:Feb 66:11:4661
- GRAY, NOMER**  
Verrazano-Narrows Bridge: Construction of Tower Foundations and Anchorages, with George H. Decanecq, CO2:Mar 66:95:4744  
Dsc: Byron J. Frugh, CO3:Sept 66:88:4889
- GRAZE, HARALD R.**  
See Ian C. O'Neill, HY2:Mar 66:382:4708
- GREAVES, MELVIN J.**  
Dsc, SM4:Jul 66:93:4860, of "Michigan Study of Pile Driving Hammers", SM5:Sept 65:37:4483
- GREEN, RICHARD S.**  
Data Handling Systems in Water Pollution Control, with Donald P. Dubois and Clarence W. Tutwiller, SA1:Feb 66:55:4652  
Dsc: Jon C. Liebman and Judith S. Liebman, SA3:Jun 66:32:4830
- GREGORY, MALCOLM S.**  
Professional Training of Engineers, FP2:Dec 66:23:5043  
Teaching Engineering Attitude to Students, PP1:Jan 65:1:4189  
Dsc: P. Hammond, PP2:Sep 65:90:4454;  
Shu-t'ien Li, PP2:Sep 65:91:4454; J.K. Wilkins, PP2:Sep 65:95:4454  
Cio: PP1:May 66:66:4804  
TR:131:361
- GRESZCZUK, LONGIN B.**  
Effect of Foreign Inclusions on Properties of Solids, EM6:Dec 66:63:5029
- GREYBER, HOWARD D.**  
Dsc, CE:May 66:76, of "California State Water Project on Schedule," CE:Jan 66:48  
Author's reply, CE:May 66:76
- GRIEVES, ROBERT B.**  
See William F. Milbury, SA3:Jun 65:45:4362
- GRIMM, SERGEI N.**  
Dsc, UP1:May 66:87:4806, of "Metropolitan Transportation Problem", UP1:Jul 65:7:4391
- GRINTER, LINTON E.**  
See Arthur N. L. Chiu, ST5:Oct 64:137:4114
- GROGAN, JOHN C.**  
See, Robert D. Dikkers, CE:Sept 66:76
- GROSCURTH, EDWARD J.**  
Specification Tolerances for Turbine Homology, PO1:Jan 66:55:4625  
Dsc, HY1:Jan 66:89:4596, of "Spillway Discharge Coefficients for Rock Island Dam", HY3:May 65:19:4320
- GROSS, WILLIAM M.**  
A Lawyer Looks at Stream Pollution, CE:Apr 65:44  
Dsc: B. F. Snow, CE:Aug 65:74  
TR:131:243
- GROVE, C. S., JR.**  
See L. J. Goodman, SM1:Jan 65:143:4211
- GUNNERSON, CHARLES G.**  
Optimizing Sampling Intervals in Tidal Estuaries, SA2:Apr 66:103:4799  
Dsc, SA5:Oct 66:114:4820 of "River and Laboratory BOD Rate Considerations", SA1:Feb 66:135:4681  
See Thomas E. Bailey, SA5:Oct 66:23:4936

**GUPTA, D. S. RAJATA MOHANA**

See B. K. Ramiah, ST4:Aug 66:13:4886

**GUPTA, N. K.**

Dsc, HY4:Jul 66:176:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123:4534

Dsc, HY3:May 66:115:4805, of "The Hydraulic Jump as a Wall Jet", HY5:Sept 65:107:4482

Dsc, HY5:Sept 66:218:4891, of "Sediment Transport in Supercritical Flow", HY6:Nov 65:57:4533

**GURFINKEL, GERMAN**

Buckling of Elastically Restrained Columns, with Arthur W. Robinson, ST6:Dec 65:159:4574

Dsc: Sahib Zaki Al-Sarraf, ST4:Aug 66:92:4871; Anatol A. Eremin, ST4:Aug 66:97:4871

**GUSCIO, FRANCIS J.**

Water Resources Problems Generated by Obnoxious Plants, with Thomas R. Bartley and Arthur N. Beck, WW4:Nov 65:47:4537

Dsc: Paul C. Wilson, Jr., WW3:Aug 66:98:4872

**GUTTI, SUBBA RAO**

Stability of an Overfall Founded on Permeable Soils, HY3:May 66:37:4821

**HAALJER, GEERHARD**

Design Data for High-Yield-Strength Alloy Steel, ST4:Aug 66:31:4887

**HAAS, H. J.**

See B. B. Schimming, SM2:Mar 66:105:4735

**HAAS, RAYMOND H.**

Dsc, WW4:Nov 66:54:4957, of "Comprehensive River Stabilization", WW1:Feb 66:59:4672

**HACKNEY, JOHN W.**

Dsc, CO3:Sept 66:86:4889, of "How Contractors Organize Their Cost Estimating and Control", CO1:Jan 66:53:4631

**HADJITHEODOROU, CHRISTOS**

See James A. Liggett, HY3:May 65:61:4322

**HADLEY, HOMER M.**

Dsc, CE:Nov 66:77, on Harry R. Powell's position on designing bridges and highways, CE:Aug 66:74

Steel Bridge Girders with Prestressed Composite Tension Flanges, CE:May 66:70

**HAECKEL, S. H.**

Remote Conversational Computing in Civil Engineering, with M. D. Sinkoff, CE:Apr 66:39

Dsc, Morton B. Lipetz, CE:June 66:79

**HAGESTAD, HAROLD A.**

Dsc, CE:May 66:74 on "Representation on the Board of Direction" (The Younger Viewpoint) CE:Dec 65:80

**HAGLER, T. W., JR.**

See M. R. Carstens, HY6:Nov 64:161:4143

**HALE, JOHN S.**

A New and Better Foreign Technical Assistance Program, CE:Jul 65:63

Dsc: I. Khwaja, CE:Oct 65:80

TR:131:439

**HALL, JOHN R.**

See Vincent P. Drnevich, SM6:Nov 66:153:4979

**HALL, M. J.**

Dsc, IR4:Dec 66:88:4995, of "Relationships Among Sprinkler Uniformity Measures", IR1:Mar 66:41:4720

**HALL, WARREN A.**

Hydropower Project Output Optimization, with Theodore G. Roefs, PO1:Jan 66:67:4628

Preliminary Optimization of an Aqueduct Route, with John S. Hammond, IR1:Mar 65:45:4248

Dsc: Edward J. Low, IR3:Sep 65:93:4453;

Nathan Buras, IR4:Dec 65:92:4550; Rolf A.

Deininger, IR4:Dec 65:93:4550

Clo: IR4:Dec 66:71:4995

**HALL, WILLIAM J.**

See Richard N. Wright, ST5:Oct 64:11:4084

**HALLMARK, DASEL E.**

Stability of Channels by Armorplating, with George L. Smith, WW3:Aug 65:117:4452

Dsc: Gaylord V. Skogerboe, WW1:Feb 66:143:4639

Clo: WW3:Aug 66:91:4872

TR:131:796

Dsc, HY5:Sept 66:270:4891, of "Flow in Culverts and Related Design Philosophies", HY2:Mar 66:19:4704

Dsc, HW2:Oct 66:124:4919, of "Philosophy of Service Life in Culvert Design", HW1:Mar 66:1:4705

**HALLOCK, HOUGHTON R.**

Dsc, WW4:Nov 66:44:4957, of "Practical Tonnage Capacity of Canalized Waterways", WW1:Feb 66:33:4644

**HALMOS, E. E., JR.**

See "Byline Washington" each issue of CIVIL ENGINEERING

Civil Engineering: A Review and Preview from Washington, CE:Jan 66:42

**HALPERIN, HERMAN**

Dsc, UP1:May 66:97:4806, of "Aesthetic Design of Electric Distribution Lines", UP1:Jul 65:31:4400

**HALTIWANGER, JOHN D.**

Research Needs in Structural Engineering for the Decade 1966-1975; Progress Report by the Committee on Research of the Structural Division, Structural Division, ASCE, ST5:Oct 66:287:4946

**HAMANO, HIROKI**

See Benno Suke Tanimoto, EM1:Feb 66:201:4646

**HAMMAD, HAMMAD Y.**

Natural Drainage of River Valleys, IR2: Jun 65:39:4360

Corr: IR1:Mar 66:107:4700

TR:131:227

Dsc, IR4:Dec 66:98:4995, of "Eliminating Water-logging Caused by Canal Seepage", IR2:Jun 66:33:4840

Dsc, IR1:Mar 66:101:4700, of "Inflow Hydrographs from Large Unconfined Aquifers", IR2: Jun 65:21:4357

Dsc, IR4:Dec 66:75:4995, of "Steady-State Theories for Drainage", IR1:Mar 66:19:4707

**HAMMER, MARK J.**

Foundation Clay Shrinkage Caused by Large Trees, with Orville B. Thompson, SM6:Nov 66:

**HAMMING, KENNETH W.**

See Richard N. Bergstrom, PO1:May 65:81:4338

**HAMMOND, DAVID B.**

"Views on Unionism, Private vs Public Competition," (The Younger Viewpoint) CE:Oct 66:86

**HAMMOND, JOHN S.**

See Warren A. Hall, IR1:Mar 65:45:4248

**HAMPTON, DELON**

Pore Air Pressure in Soil Subjected to Shock Waves, SM6:Nov 65:41:4541

Dsc: Peter S. Westine, SM2:Mar 66:198:4701;

John W.N. Fead, SM4:Jul 66:103:4860

**HANEY, PAUL D.**

What is Pollution? An Engineer's Viewpoint, SA1:Feb 66:109:4659

Dsc: Roy E. Ramaeier, SA4:Aug 66:81:4873

Clo: SA6:Dec 66:156:4996

**HANSEN, ROBERT D.**

Comparison of Static and Dynamic Hysteresis, EMS:Oct 66:87:4949

**HANSEN, ROGER M.**

See Frank L. Gill, ST1:Feb 66:89:4666

**HANSEN, VAUGHN E.**

See Yu-Si Fok, IR3:Sept 66:35:4912

See C. Earl Israelsen, IR1:Mar 65:93:4262

**HARBOUGH, TERENCE E.**

Dsc, HY1:Jan 66:99:4596, of "Computer Analysis of Overland Flow", HY3:May 65:81:4325

**HARDER, JAMES A.**

Analog Modeling the California Delta System, with John O. Nelson, HY4:Jul 66:1:4862

**HARDIN, BOBBY O.**

Generalized Kelvin-Voigt Used in Soil

Dynamics Study, with Gordon D. Scott, EM1: Feb 66:143:4678

The Nature of Damping in Sands, SM1:Jan 65: 63:4206

Dsc: G.F. Weissmann, SM4:Jul 65:232:4394

Clo: SM1:Jan 66:170:4594

TR:131:299

Sand Stiffness Under Various Triaxial Stresses, with William L. Black, SM2:Mar 66:27:4712

**HARDISON, ALLEN CROSBY**

Memoir of, TR:131:901

**HARDISON, R. LOGAN**

See Thomas A. Marlow, HY4:Jul 66:43:4866

**HARLEMAN, DONALD R. F.**

Withdrawal from Two-Layer Stratified Flows, with Rex A. Elder, HY4:Jul 65:43:4398

Dsc: S.D. Phansalkar, HY2:Mar 66:415:4708

Clo: HY5:Sept 66:207:4891

TR:131:764

**HARP, J. F.**

A Simple Method for Determining Water-Surface Profiles, with E.M. Laursen, CE:Oct 65:

Dsc: S.E. Rantz, CE:Mar 66:74; George R.

Oliger, CE:Mar 66:86

**HARPER, G. NEIL**

AUTOSPEC: Automated Preparation of Specifications, ST6:Dec 66:45:5002

See Alfredo H.S. Ang, EM5:Oct 64:397:4113

**HARRIS, BILLY J.**

Face-Wrinkling Mode of Buckling of Sandwich Panels, with W.C. Crisman, EM3:Jun 65:93:4370

Dsc: Tau-Chao Fan, EM6:Dec 65:191:4549

Clo: EM3:Jun 66:103:4828

TR:131:575

**HARRIS, GARTH S.**

An Inclined Plume, EM1:Feb 65:7:4215

Dsc: V. Kruka, EM4:Aug 65:214:4433; David

I.H. Barr, EM5:Oct 65:224:4495

Clo: EM2:Apr 66:290:4747

TR:131:416

**HARRIS, HOWARD S.**

Orthokinetic Flocculation in Water Purification, with Warren J. Kaufman and Ray B. Krone, SA6: Dec 66:95:5027

**HARRIS, M. K.**

California--Planning and Anchoring 12 Miles of Big Pipe for Santa Clara County, CE:

Jun 65:61

TR:131:345

- HARTMANN, ALOIS J.**  
Flexural-Torsional Buckling of Planar Frames,  
with William H. Munse, EM2:Apr 66:37:4767
- HARTWIG, W. P.**  
See H. E. Dann, PO3:Oct 64:47:4071
- HARTZ, BILLY J.**  
Matrix Formulation of Structural Stability  
Problems, ST6:Dec 65:141:4572  
Dsc: James M. Howe, ST3:Jun 66:287:4831;  
See Kanwar K. Kapur, EM2:Apr 66:177:4790
- HARTZ, KENNETH E.**  
Effects of CO<sub>2</sub> and N<sub>2</sub> on Anaerobic Digestion,  
with R. Rupert Kountz, SA2:Apr 66:83:4771  
Dsc: Henry A. Dirasian, SA5:Oct 66:131:4920
- HATCHER, DAVID S.**  
Test of a Reinforced Concrete Flat Plate, with  
Mete A. Sozen and Chester P. Siess, ST5:Oct 65:  
205:4514  
Dsc: William A. Little, ST2:Apr 66:438:4759;  
Richard N. White and Gajanan M. Sabnis, ST2:  
Apr 66:443:4759  
Clo: ST5:Oct 66:322:4922
- HATTERSLEY, RALPH T.**  
Hydraulic Design of Pump Intakes, HY2:Mar 55:  
223:4276  
Dsc: S. Raghunathan and Subir Kar, HY6:  
Nov 65:213:4527  
Clo: HY3:May 66:89:4805  
TR:131:347
- HAUSSER, RENÉ**  
See Ernest Pariset, HY6:Nov 66:1:4965
- HAWKINS, LEON**  
See Don L. Ivey, CE:Dec 66:34
- HAWKINS, RICHARD**  
"Representation on the Board of Direction"  
(The Younger Viewpoint) CE:Dec 65:80  
Dsc: Eugene F. Bespalow, CE:Feb 66:74;  
Earl J. Kramer and Harold A. Hagestad,  
CE:May 66:74
- HAYES, RICHARD H.**  
West Virginia--TV Proves Useful for Sewer  
Inspection by Corps of Engineers, CE:Jan 66:66
- HAYNES, JOHN J.**  
Dsc, HW2:Oct 66:113:4919, of "High Density  
Vehicular Flow-Density Relationships", HW2:  
Dec 65:37:4581
- HEAD, JAMES A.**  
Highway Safety Elements in Aesthetic Design,  
HW2:Oct 66:15:4918
- HEBERT, RAYMOND E.**  
Development of a New Type of Rapid Sand Filter,  
SA1:Feb 66:31:4649
- HEDEGAARD, ADOLPH, JR.**  
Dsc, WW1:Feb 66:133:4639, of "Foreshore  
Protection, Lower Mississippi River", WW2:  
May 65:1:4305
- HEDGREN, ARTHUR W., JR.**  
Numerical Analysis of Translational Shell  
Roofs, with David P. Billington, ST1:Feb 66:  
223:4679  
Dsc: John E. Goldberg and Achyut V. Settler,  
ST5:Oct 66:357:4922; Shigeki T. Yamahara and  
Richard L. Citerley, ST5:Oct 66:358:4922; H.  
Tottenham, ST5:Oct 66:360:4922
- HEDLEY, WILLIAM J.**  
The State of the Society, CE:June 66:39  
TR:131:879
- HEDMAN, E. ROBERT**  
Effect of Spur Dikes on Flow Through Contrac-  
tions, HY4:Jul 65:155:4412  
Dsc: Lester A. Herr, HY2:Mar 66:430:4708  
Clo: HY5:Sept 66:209:4891  
TR:131:722
- HEITMAN, T. M.**  
Pipeline Corrosion Stopped by Zinc Anodes,  
CE:Oct 66:50
- HELBOCK, WILLIAM P.**  
Barge Decks Resurfaced with Asphalt, CE:  
Nov 65:54  
TR:131:627
- HELY, ALLEN G.**  
Areal Variations of Mean Annual Runoff, HY5:  
Sept 64:61:4030  
Dsc: John R. Crippen, HY2:Mar 65:395:  
4249; Henry C. Riggs, HY2:Mar 65:396:4249;  
Lawton W. Furness, HY3:May 65:336:4304  
Clo: HY6:Nov 65:169:4927  
TR:131:41
- HENDERSON, GEORGE L.**  
Dynamic Structural Analysis with Short Time  
History, ST3:Jun 65:1:4352  
Dsc: Keith E. McKee, ST5:Oct 65:404:4498  
Clo: ST2:Apr 66:407:4759  
TR:131:253
- HENKEL, DAVID J.**  
Plane Strain Tests on a Saturated Remolded  
Clay, with Neil H. Wade, SM6:Nov 66:67:  
4970
- HENLEY, JOHN B.**  
Dsc, WW4:Nov 66:55:4957, of "Comprehensive  
River Stabilization", WW1:Feb 66:59:4672
- HENRY, L.**  
See Masanobu Shinozuka, EM5:Oct 65:123:4510
- HERBERTSON, J. GRAHAM**  
Dsc, with David I. H. Barr, HY2:Mar 66:441:  
4708, of, "Calculation of Nonuniform Sediment  
Concentrations", HY4:Jul 65:225:4417  
See David I. H. Barr, HY5:Sept 66:210:4891  
See David I. H. Barr, HY6:Nov 66:248:4959  
See David I. H. Barr, HY6:Nov 66:257:4959

**HERBICH, JOHN B.**

Large-Scale Roughness in Open-Channel Flow, with Sam Shults, HY6:Nov 64:203:4145

Dsc: A. G. Mirajgaoker and Abhai K. Jain, HY5:Sep 65:242:4464; John A. Roberson, HY5:Sep 65:244:4464; E. M. O'Loughlin and K.K. Rao, HY5:Sep 65:251:4464; Jack C. Schuster, HY5:Sep 65:253:4464; David I. H. Barr, HY5:Sep 65:255:4464; Ben-Chie Yen, HY5:Sep 65:257:4464

Clo: HY3:May 66:75:4805

TR:131:386

**HERNDON, LOUIS W.**

See Lester F. Lawhon, IR4:Dec 65:23:4569

**HERNESS, ERVIN D.**

See John S. Maybee, EM2:Apr 66:153:4788

**HERR, LESTER A.**

Philosophy of Service Life in Culvert Design, HW1:Mar 66:1:4705

Dsc: Dase E. Hallmark, HW2:Oct 66:124:4919; John L. Beaton and Richard F. Stratfull, HW2:Oct 66:128:4919

Dsc, HY2:Mar 66:430:4708, of "Effect of Spur Dikes on Flow Through Contractions", HY4:Jul 65:155:4412

**HERRIN, MORELAND**

See M. Abdel-Hady, HW1:Mar 66:49:4719

**HERRMANN, GEORGE**

See Jan D. Achenbach, EM2:Apr 66:113:4781

See Michael J. Forrestal, EM3:Jun 65:1:4354

**HERRMANN, LEONARD R.**

Elastic Torsional Analysis of Irregular Shapes, EM6:Dec 65:11:4562

Dsc: Alexander Wargon, EM2:Apr 66:299:4747; Patricio A. Laura, EM3:Jun 66:108:4828; Olgierd C. Zienkiewicz, EM4:Aug 66:78:4874

**HERSEY, A. T.**

Do's and Don'ts of Cold-Weather Concreting, CE:Jul 65:36

TR:131:464

**HERTELENDY, EMERY**

Dsc, CE:Mar 66:74 of "Esthetics for the Highway Designer," CE:Jan 66:69

**HERTZBERG, RUDOLF**

Foreshore Protection, Lower Mississippi River, WW2:May 65:1:4305

Dsc: Adolph Hedegaard, Jr., WW1:Feb 66:133:4639

Clo: WW3:Aug 66:89:4872

TR:131:573

**HESS, MILTON S.**

See Robert D. Stoll, EM5:Oct 66:25:4928

**HIBBERT, P. D.**

See R. F. Hooley, ST1:Feb 66:39:4663

**HICKERSON, THOMAS F.**

Dsc, HW2:Oct 66:118:4919, of "Spiral Problems for an Electronic Computer", HW2:Dec 65:101:4590

**HICKS, STEACY D.**

Yearly Sea Level Variations for the United States, with William Shofnos, HY5:Sep 65:23:4468

Corr: HY4:Jul 66:167:4859

TR:131:456

**HIEMSTRA, LOURENS A. V.**

See Brian M. Reich, HY3:May 65:217:4339

**HILL, ALBERT L.**

Dsc, HY3:May 66:100:4805, of "Sedimentation Aspects in Recreating Planning", HY5:Sept 65:51:4473

**HILL, CLAIR A.**

Fringe Benefits in Civil Engineering Compensation, CE:Jul 65:64

TR:131:432

**HILL, HARRY M.**

Bed Forms Due to a Fluid Stream, HY2:Mar 66:127:4724

Dsc: David I. H. Barr, HY6:Nov 66:226:4959

**HILL, LOUIS A., JR.**

Automated Optimum Cost Building Design, ST6:Dec 66:247:5013

**HILL, RAYMOND A.**

Future Quantity and Quality of Colorado River Water, IR1:Mar 65:17:4244

Dsc: Wesley E. Steiner, W. Don Maughan and Dallas E. Cole, IR4:Dec 65:78:4550; Floyd E. Connery, IR4:Dec 65:80:4550; John H. Bliss, IR4:Dec 65:82:4550

Clo: IR3:Sept 66:51:4892

TR:131:837

Transitory Irrigation Developments, CE:Mar 65:56

Dsc: Charles Green, CE:Jun 65:72, Author's reply, CE:Jun 65:72

TR:131:211

Dsc, IR3:Sept 66:86:4892, of "Salinity Problems and Management in River Systems", IR1:Mar 66:77:4733

Dsc, CE:Sept 66:81, on selection of Society officers

**HILTABIDLE, W. O., JR.**

Quality Control in Construction, with Bradford N. Clark, Charles E. Schaffner, John Nelson Linn, Ralph E. De Simone, Arnold H. Vollmer, Elmer B. Isaak, Leslie D. Long, Richard Q. Praeger, and Hal W. Hunt, CO1:May 65:141:4340

Dsc: Paul F. Keim, CO1:Jan 66:102:4597

L. L. Simom, CO1:Jan 66:106:4597

Clo: CO3:Sept 66:85:4889

TR:131:660

**HINKLEY, A. T.**

Analysis of a Shear Wall Supported by a Beam,  
ST1:Feb 66:121:4668  
Dsc: Alexander P. Hrennikoff, ST4:Aug 66:  
103:4871; Alexander Coull, ST5:Oct 66:346:4922

**HIRTLE, GORDON**

See Seymour Wengrovitz, CE:Jul 65:47

**HO, FANG-HUAI H.**

Dynamic Instability of a Deep Spherical Shell,  
EM3:Jun 65:233:4382  
Dsc: Robert S. Roth, EM1:Feb 66:211:4646;  
Robert R. Archer, EM1:Feb 66:212:4646  
Clo: EM4:Aug 66:74:4874

**HOEL, LESTER A.**

Dsc, W.L. Chadwick, CE:Oct 66:67  
Dsc, CE:Nov 66:77 on Engineering Registration,  
CE:Sept 66:39

**HOFMANN, WALTER**

Parametric Hydrology and Stochastic Hydrology: Report of the Committee on Surface Water Hydrology, ASCE, HY6:Nov 65:119:4539  
Dsc: R. Robinson Rowe, HY2:Mar 66:446:4708; Myron B. Fiering, HY2:Mar 66:447:4708; Thomas Blench, HY2:Mar 66:448:4708; Stanley S. Butler, HY2:450:4708; Sundaresa Ramaseshan, HY5:Sept 66:238:4891; Robert L. McFall, HY5:Sept 66:241:4891

**HOGNESTAD, EIVIND**

See Donald D. Magura, ST1:Feb 66:327:4685

**HOLBURT, MYRON B.**

Dsc, IR4:Dec 66:91:4895, of "Kaweah River Water Rights Settlement by Purchase", IR1:Mar 66:55:4729

**HOLM, T. A.**

Thermal Stresses Due to Unequal Thermal Coefficients of Concrete and Reinforcing Steel,  
CE:Feb 65:63  
TR:131:144

**HOLMES, PATRICK**

Dsc, WW2:May 66:52:4808, of "Directional Spectra of Laboratory Wind Waves", WW3:Aug 65:91:4450  
See Willard J. Pierson, Jr., WW4:Nov 65:1:4528

**HOLMES, WILLARD LEWIS**

Memoir of, TR:131:902

**HOLTZ, WESLEY G.**

Effects of Driving Displacement Piles in Lean Clay, with Clemith A. Lowitz, SM5:Sept 65:1:4476  
Dsc: Austars R. Schnore, SM2:Mar 66:194:4701

**HONG, HYOUNGKEY**

Dsc, HW2:Oct 66:108:4919, of "Civil Engineering in Urban Transportation Planning", HW2:Dec 65:11:4560  
See Bruce A. Lind, HW1:Jan 65:25:4205

**HOOLEY, R. F.**

Bounding Plane Stress Solutions by Finite Elements, with P.D. Hibbert, ST1:Feb 66:39:4663  
Dsc: Alexander P. Hrennikoff, ST3:Jun 66:291:4831

**HOOPER, DON R.**

See James K. Mitchell, SM4:Jul 65:41:4392

**HOPKINS, GLEN J.**

Missouri--Pollution Abatement Program for Kansas City, with Omar C. Hopkins and Jim S. Noel, CE:Sep 65:39  
TR:131:571

**HOPKINS, OMAR C.**

See Glen J. Hopkins, CE:Sep 65:39

**HORN, HARRY M.**

Settlement of Buildings on the MIT Campus, with T. William Lambe, SM5:Sep 64:181:4038  
Dsc: Ulrich W. Stoll, SM2:Mar 65:120:4257; Thomas E. Phalen, Jr., SM2:Mar 65:120:4257; Philip Keene, SM5:Sep 65:95:4457  
Clo: SM2:Mar 66:149:4701  
TR:131:221

**HORNING, D. O.**

See William J. Oswald, SA4:Aug 65:23:4445

**HORONJEFF, ROBERT**

Jet Transport Characteristics Related to Airports, with Gale Ahlborn, AT1:Apr 65:33:4301

Corr: AT1:Jan 66:171:4595

TR:131:150

See Chi Chao Tung, AT1:Jan 66:1:4603

**HORSTMAN, WILLIAM L.**

Barge Docks for Inland Waterways, WW4:Nov 64:99:4146  
TR:131:703

**HOTES, FREDERICK L.**

See Stephen V. Allison, HY1:Jan 66:156:4596

**HOUGH, BENJAMIN K.**

Dsc, SM2:Mar 66:190:4701, of "Standard Penetration Test: Its Uses and Abuses", SM4:Jul 65:67:4395

**HOUSEL, WILLIAM S.**

Michigan Study of Pile Driving Hammers, SM5:Sept 65:37:4483  
Dsc: Edward W. Boggs, SM4:Jul 66:90:4860; Anderton L. Bentley, Jr., SM4:Jul 66:92:4860; Melvin J. Greaves, SM4:Jul 66:93:4860  
Pile Load Capacity: Estimates and Test Results, SM4:Jul 66:1:4861

**HOUSTON, CLYDE E.**

Dsc, IR3:Sept 66:76:4882, of "Water Management of Riceands in Louisiana and Texas", IR4:Dec 65:23:4569



**HOWARD, BURL W.**

CMP--As Complete Project Management,  
CO1:May 65:99:4324

Dsc: Herbert M. Priluck, CO1:Jan 66:100:  
4597; Alwyn C. Alberga, CO1:Jan 66:100:4597  
Clo: CO3:Sept 66:83:4889  
TR:131:628

**HOWARD, R. B.**

Belleville Locks on Ohio River, CE:Nov 65:51  
TR:131:621

**HOWE, JAMES M.**

Dsc, with J. A. Richardson, ST4:Aug 66:86:  
4871, of "Analysis of Nonlinear Structures:  
Force Method", ST6:Dec 65:33:4553  
Dsc, ST3:Jun 66:287:4831, of "Matrix Formula-  
tion of Structural Stability Problems", ST6:Dec  
65:141:4572

**HOWELL, DAVID T.**

Nonuniformity and Sprinkler Application Ef-  
ficiency, IR3:Sep 64:41:4052  
Dsc: Jerald E. Christiansen, IR1:Mar 65:224:  
4242; William E. Hart and William N. Rey-  
nolds, IR2:Jun 65:80:4349  
Clo: IR4:Dec 65:75:4550  
TR:131:804  
Sprinkler Nonuniformity Characteristics and  
Yield, IR3:Sep 64:55:4053  
Dsc: Jerald E. Christiansen, IR1:Mar 65:227:  
4242  
Clo: IR3:Sep 65:86:4453  
TR:131:814  
See Jack G. Beale, IR1:Mar 66:41:4720

**HOWELLS, DAVID H.**

Federal Water Pollution Control Laboratories,  
SA2:Apr 66:43:4758  
Dsc: John J. Baffa, SA5:Oct 66:129:4920;  
Fred J. Burgess, SA6:Dec 66:146:4996

**HRENNIKOFF, ALEXANDER P.**

Importance of Strain Hardening in Plastic  
Design, ST4:Aug 65:23:4424  
Dsc: Peter F. Adams and Theodore V. Gal-  
ambos, ST2:Apr 66:411:4759; Tung Hua Lin,  
ST2:Apr 66:418:4759; Anatol A. Eremin,  
ST2:Apr 66:419:4759  
Clo: ST5:Oct 66:318:4922  
TR:131:856  
Dsc, ST4:Aug 66:103:4871, of "Analysis of a  
Shear Wall Supported by a Beam", ST1:Feb 66:  
121:4668  
Dsc, ST5:Oct 66:362:4922, of "The Analysis of  
Structural Safety", ST1:Feb 66:267:4682  
Dsc, ST3:Jun 66:291:4831, of "Bounding Plane  
Solutions by Finite Elements", ST1:Feb 66:39:  
4663  
Dsc, EM3:Jun 66:115:4828, of "Plane-Frame-  
work Methods for Plates in Extension", EM1:  
Feb 66:157:4695

**HRIBAR, JOHN A.**

See Russel C. Jones, EM5:Oct 64:43:4073

**HUANG, WEN-HSIUNG**

Dsc, HY5:Sept 66:278:4891, of "Dividing Flow  
in an Open Channel", HY2:Mar 66:207:4730

**HUBER, D. GRANT**

Experimental Study of Two-Layered Flow  
Through a Sink, with T. L. Reid, HY1:Jan 66:  
31:4618

**HUDDLESTON, JOHN V.**

Analysis of an Inelastic Column, EM4:Aug 64:  
1:3992  
Dsc: Ülo Lepik, EM2:Apr 65:76:4286  
Clo: EM5:Oct 65:217:4495  
TR:131:787

**HUDLOW, MICHAEL D.**

Dsc, with Robert A. Clark, HY6:Nov 66:215:  
4959, of "Hydrographs of Ephemeral Streams  
in the Southwest", HY2:Mar 66:33:4710

**HUFFMAN, ELMO W.**

Waste Water Disposal: San Joaquin Valley,  
California, IR2:Jun 66:47:4847

**HUGHES, G. H.**

Determination of Water Use by Phreatophytes  
and Hydrophytes, with Charles C. McDonald,  
HY2:Mar 66:63:4714  
Dsc: Harry F. Blaney, Sr., HY5:Sept 66:271:  
4891; Thomas W. Robinson, HY6:Nov 66:220:  
4959

**HUGHES, G. T.**

See Earle J. Klohn, SM6:Nov 64:107:4141

**HULL, C. H. J.**

Dsc, SA1:Feb 66:306:4637, of "Effect of Ben-  
thic Algae on Stream Dissolved Oxygen", SA3:  
Jun 65:1:4345

**HUNT, HAL W.**

Contract Award Practices, with Douglas H. Lo-  
gan, Roger H. Corbetta, A. Holmes Crimmins,  
Robert P. Bayard, Edward Lore, and Samuel A.  
Bogen, CO1:Jan 66:1:4604  
How to Improve Quality Control of Construc-  
tion, CE:Oct 65:654  
TR:131:698  
Sweden--Building Foundation Built as a Cais-  
son for Port Storage in Stockholm, CE:Jan 65:  
60  
TR:131:39  
See W. O. Hiltabidle, Jr., CO1:May 65:141:  
4340

**HUNT, HAROLD G.**

Cost and Economics of Maintenance of Turbine  
Runner Cavitation, PO1:Jan 66:107:4634

**HUNTER, GEORGE EWING**

Choice Not Chance in Technopolis, PP2:Dec  
66:15:5041

**HUNTER, J. R.**

See H. E. Dann, PO3:Oct 64:47:4071

**HUNTZICKER, H. N.**

Dsc, CE:May 66:76, of the PCA Symposium,  
CE:Mar 66:32

**HURST, FREDERICK V., JR.**

Dsc, AT2:Nov 66:106:4955, of "Forecasting  
Air Traffic", AT2:Oct 65:1:4486

**HURST, REX L.**

See Lyman S. Willardson, IR1:Mar 65:1:4240

**HUSAIN, HUSAIN M.**

See Alan L. Yettram, EM3:Jun 65:53:4361  
See Alan L. Yettram, EM1:Feb 66:157:4695

**HYATT, M. LEON**

See Gaylord V. Skogerboe, HY5:Sept 66:255:

**IBRAHIM, HASSAN ALI**

Inflow Hydrographs from Large Unconfined  
Aquifers, with Wilfred Brutsaert, IR2:Jun 65:  
21:4357

Dsc: Robert L. McFall, IR4:Dec 65:130:4550;  
Hammad Y. Hammad, IR1:Mar 66:101:4700;  
Roberto Carravetta, IR1:Mar 66:102:4700;  
John Y. Ding, IR1:Mar 66:104:4700  
Clo: IR3:Sept 66:68:4892  
TR:131:864

**IPPEN, ARTHUR T.**

See Frederic Raichlen, HY2:Mar 65:1:4241

**IRELAND, HERBERT O.**

Dsc, SM2:Mar 66:189:4701, of "Standard  
Penetration Test: Its Uses and Abuses", SM4:  
Jul 65:67:4395

**IRVIN, LESLIE A.**

California--Rapid-Transit Test Track for San  
Francisco, CE:Aug 65:48  
TR:131:496

**IRWIN, WILLIAM H.**

Impoundment Destratification by Mechanical  
Pumping, with James M. Symons and Gordon  
G. Robeck, SA6:Dec 66:21:5032

**ISAAK, ELMER B.**

See W. O. Hiltabidle, Jr., CO1:May 65:141:  
4340

**ISHERWOOD, JOHN D.**

See Albert F. Bush, SA1:Feb 66:99:4653

**ISRAELEN, C. EARL**

Evaporation Reduction on Large Reservoirs,  
with Vaughn E. Hansen, IR1:Mar 65:93:4262

Dsc: Joseph B. Franzini, IR4:Dec 65:101:  
4550; Victor K. LaMer, IR4:Dec 65:102:4550;  
Asit K. Biswas, IR4:Dec 65:106:4550  
Clo: IR3:Sept 66:56:4892  
TR:131:784

**IVES, KENNETH J.**

Research on Variables Affecting Filtration,  
with Ihsan Sholji, SA4:Aug 65:1:4436  
Dsc: Jimmie E. Quon and Robert S. Gemmell,  
SA1:Feb 66:328:4637; Donald R. Stanley, SA2:  
Apr 66:177:4754  
Clo: SA5:Oct 66:106:4920  
See Ernest W. J. Diaper, SA3:Jun 65:89:4378

**IVEY, DON L.**

Creep in Grouted Sleeve Splices of Reinforcing  
Bars, CE:Aug 66:54  
Signboard Footings to Resist Wind Loads, with  
Leon Hawkins, CE:Dec 66:34

**IYENGAR, K. T. SUNDARA RAJA**

Influence Lines for Beams on Elastic Founda-  
tions, with S. Anantharamu, ST3:Jun 65:45:  
4359

Dsc: Lancelot A. Fekete, ST6:Dec 65:297:  
4547; Bruno Barbarito, ST1:Feb 66:479:4638;  
William F. Curran, ST1:Feb 66:485:4638  
Clo: ST4:Aug 66:55:4871  
TR:131:643

**IYENGAR, SRINIVASA H.**

See Fazlur R. Khan, ST6:Dec 66:55:5003

**JACKSON, DONALD R.**

Dsc, with Robert A. Miller, HY1:Jan 66:91:  
4596, of "Computer Analysis of Overland Flow",  
HY3:May 65:81:4325  
Dsc, HY1:Jan 66:87:4596, of "River Flood  
Flows, Forecasts and Probabilities", HY3:  
May 65:1:4312

**JACKSON, MELVIN W.**

An Engineering Appraisal of Hurricane Betsy,  
CE:Jan 66:37  
Dsc, Thomas J. Bowen, CE:May 66:76

**JACKSON, NEIL**

Collapse Loads for Circular-Arc Beams, ST5:  
Oct 66:1:4925  
Dsc, ST3:Jun 66:277:4831, of "Comparison of  
Simplified Theories for Folded Plates", ST6:  
Dec 65:1:4552

**JACKSON, P.**

Water Leakage at Form Ties, CE:Nov 66:74

**JACOBS, STANLEY**

Wave Hindcasts versus Recorded Waves,  
WW4:Nov 66:17:4983

**JACOBSON, HENRY**

See Thomas A. Marlow, HY4:Jul 66:43:4866

**JAHAANSHAH, ARDESHIR**

Elastic Plates Subjected to Moving Heat  
Sources, EM4:Aug 65:27:4426  
Corr: EM3:Jun 66:107:4828  
TR:131:450  
Viscoelastic Stresses for Moving Temperature  
Fields, EM2:Apr 66:25:4766

**JAMES, WILLIAM**

Dsc, HY1:Jan 66:142:4596, of "Tacitly Maximized Small Watershed Flood Estimates",  
HY3:May 65:217:4339

**JANNARONE, JOHN R.**

Dsc., CE:Apr 66:64 of "Sylvanus Thayer, P.E. No. 1," CE:Feb 66:33

**JARVIS, ROBERT B.**

Legal Aspects of Quality Control, CE:Oct 65:71  
TR:131:600

**JEN, YUAN**

Surface Discharge of Horizontal Warm-Water Jet, with Robert L. Wiegel and Ismail Mobarek,  
PO2:Apr 66:1:4801

**JENKINS, ROBERT A.**

Internal Sand Cleaning of Pipelines, PL1:  
Mar 66:1:4717

**JENNINGS, ALAN**

Dsc, ST3:Jun 66:279:4831, of "Analysis of Nonlinear Structures: Force Method", ST6:  
Dec 65:33:4553

Dsc, ST3:Jun 66:289:4831, of "Matrix Formulation of Structural Stability Problems", ST6:  
Dec 65:141:4572

Dsc, ST5:Oct 66:337:4922, of "Structural Analysis of Suspension Bridges", ST1:Feb 66:49:4664

**JENNINGS, PAUL C.**

Earthquake Response of a Yielding Structure,  
EM4:Aug 65:41:4435  
TR:131:453

**JENSEN, J. E. N.**

Missouri--St. Louis Steel Arch, Symbol of the Spirit of the Pioneers, CE:Oct 65:64  
TR:131:594

**JENSEN, MARVIN E.**

Dsc, IR1:Mar 66:95:4700, of "Irrigation Water Requirements of Lawns", IR2:Jun 65:11:4350

**JERIS, JOHN S.**

Dsc, SA6:Dec 66:119:4996, of "Mass and Energy Relationships in Anaerobic Digestion",  
SA1:Feb 66:85:4655

**JERNIGAN, OTIS M.**

Control of Obnoxious Aquatic Plants in the Southeast, with Angelo Tabita and William E. Wunderlich, WW4:Nov 65:31:4536

Dsc: Walter C. Carey, WW3:Aug 66:94:4872;  
Milton E. Parkam and Austin B. Smith, WW3:  
Aug 66:98:4872

**JERVIS, W. H.**

See, Reinard H. Brandley, CE:Aug 66:58

**JEWETT, R. L.**

Dsc, CE:May 66:74 of "Sylvanus Thayer, P.E. No. 1," CE:Feb 66:33

**JEZDINSKY, VLADIMIR**

See Hunter Rouse, HY3:May 66:1:4815

**JIRSA, JAMES O.**

Test of a Flat Slab Reinforced with Welded Wire Fabric, with Mete A. Sozen and Chester P. Siess, ST3:Jun 66:199:4852

**JOHNSON, ALBERT L.**

Behavior of Stainless Steel Columns and Beams, with George Winter, ST5:Oct 66:97:4934

**JOHNSON, CLIFTON W.**

Drop-Box Weir for Sediment-Laden Flow Measurements, with Howard D. Copp and Roy E. Tinney, HY5:Sept 66:165:4916

**JOHNSON, DAVID**

See Derek M. Brotton, ST5:Oct 66:339:4922

**JOHNSON, GLENN M.**

See Jimmie E. Quon, SA2:Apr 66:67:4762

**JOHNSON, JOHN E.**

Structural Behavior in a Gypsum Roof-Deck System, with Albert D. M. Lewis, ST2:Apr 66: 283:4789

Dsc: A. Harold Metcalfe, ST5:Oct 66:390:4922

**JOHNSON, R. PAUL**

Dsc, ST1:Feb 66:498:4638, of "On Composite Beams", ST4:Aug 65:17:4423

**JOHNSON, RICHARD E.**

Dustfall as a Source of Water Quality Impairment, with August T. Rossano and Robert O. Sylvester, SA:Feb 66:245:4694

**JOHNSON, ROBERT L.**

Effect of Backwash on Filter Effluent Quality, with John L. Cleasby, SA1:Feb 66:215:4692  
Dsc: Kuan M. Yao, SA5:Oct 66:125:4920

**JOHNSON, SIDNEY M.**

See Thomas C. Kavanagh, CE:May 65:52  
See Thomas C. Kavanagh, CE:July 66:31  
See Thomas C. Kavanagh, CE:Sept 66:73

**JOHNSON, WENDELL E.**

Dsc, SM2:Mar 66:165:4701, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:Jul 65:1:4390

**JOHNSON, WILLIAM K.**

Your Other Culture (The Younger Viewpoint)  
CE:Dec 66:76

**JOHNSTON, BRUCE G.**

An Awareness of Reality, CE:Jan 65:58  
TR:131:31

Inelastic Buckling Gradient, EM6:Dec 64:31: 4158

Dsc: Giuliano Augusti, EM4:Aug 65:199:4433  
Clo: EM1:Feb 66:200:4646

TR:131:331

Dsc, ST2:Apr 66:445:4759, of "Buckling Strength of Circular Tubes", ST5:Oct 65:325: 4520

See I. A. El Darwish, ST1:Feb 65:203:4228

- JOHNSTON, WILLIAM R.**  
See Arthur F. Pillsbury, IR2:Jun 65:1:4344
- JONAS, ERNEST**  
Subsurface Stabilization of Organic Silty Clay by Precompression, SM5:Sep 64:363:4031  
Dsc: Isaac W. Tarshansky, SM3:May 65:133:4308; Donald T. Goldberg, SM3:May 65:136:4308  
Clo: SM1:Jan 66:164:4594  
TR:131:242
- JONES, ELTON F.**  
Designing Wood Structures for Durability, CE: Jul 66:44  
Dsc: Robert E. Mills, Sr., CE:Nov 66:77
- JONES, JOHN HUGH**  
See Danilo M. Garcia, HW2:Dec 65:37:4581
- JONES, LELAND B.**  
Snake River Bank Stabilization, WW1:Feb 66: 1:4642  
Dsc: Walter C. Carey, WW3:Aug 66:100:4872
- JONES, LLEWELLYN E.**  
Some Observations on the Undular Jump, HY3: May 64:69:3901  
Dsc: Danny L. King, HY6:Nov 64:351:4130; Hunter Rouse, HY6:Nov 64:354:4130; F.V.A. Engel, HY1:Jan 65:185:4192  
Clo: HY4:Jul 66:103:4859  
Dsc, HY5:Sept 66:236:4891, of "Secondary Currents in a Corner", HY6:Nov 65:99:4538
- JONES, RUSSEL C.**  
Better Utilization of Society Resources (The Younger Viewpoint) CE:May 66:82  
Grain Size and Loading Effects on Steel, with John A. Hribar, EM5:Oct 64:43:4073  
TR:131:56
- JORGENSEN, ROY E.**  
Deficiencies of Urban Transportation Studies, HW2:Dec 65:17:4568  
Dsc: Paul W. Shuldiner, HW2:Oct 66:110:4919
- JORGENSEN, VERNON F.**  
Aesthetic Considerations in City Construction, UP1:Jul 65:1:4389  
Dsc: Shu-t'ien Li, UP1:May 66:82:4806; John Maiche Matthews, UP1:May 66:83:4806; George L. Peterson, UP1:May 66:84:4806
- JUHL, HEINZ G.**  
Loads on Vertical Pile Groups, ST2:Apr 66: 103:4774  
Dsc: Frederic T. Mavis, ST5:Oct 66:383:4922
- JUST, LEO H.**  
Verrazano-Narrows Bridge: Design of Tower Foundations and Anchorages, with Ira G. Levy, and Vladimir Obrcian, CO2:Mar 66:71:4743
- KAAR, P. H.**  
Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units; Progress Report by the Task Committee on Precast Concrete Design and Construction, Structural Division, ASCE, ST5:Oct 66:119:4935
- KADIB, ABDEL-LATIF A.**  
Mechanism of Sand Movement on Coastal Dunes, WW2:May 66:27:4817
- KALLUS, MALCOLM F.**  
Hydrology of Water Quality Dilution Requirements, with Jack W. Keeley, SA5:Oct 66:7:4930
- KANE, HARRISON**  
Dsc, SM6:Nov 66:255:4958, of "Surface Settlement Adjacent to Braced Open Cuts", SM4: Jul 66:51:4867
- KAO, JAO-SHIUN**  
Bending of Circular Sandwich Plates, EM4: Aug 65:165:4449  
TR:131:438  
See Bertram J. Thorn, EM1:Feb 66:59:4658
- KAO, T. Y.**  
See Don J. Wood, EM6:Dec 66:117:5039
- KAPLAN, JULIUS**  
Foreign Contracts--Subject to the Approval of AID, CE:Mar 66:62  
Dsc, Chester L. Lucas, CE:June 66:78
- KAPUR, KANWAR K.**  
Stability of Plates Using the Finite Element Method, with Billy J. Hartz, EM2:Apr 66:177: 4790
- KARAGOZIAN, JOHN**  
See Moshe F. Rubinstein, ST6:Dec 66:223:5012
- KARARA, HOUSSAM M.**  
Dsc, SU2:Jun 66:65:4832, of "Aerial Triangulation Using Independent Photo Pairs", SU2: Sep 65:27:4469
- KARASOPOULOS, THEODORE H.**  
See, Martin C. Rissel, CE:Dec 66:42
- KAROL, REUBEN H.**  
Dsc, SM4:Jul 66:106:4860, of "British Practice for Grouting Granular Soils", SM6:Nov 65:57: 4542
- KARPOFF, KONSTANTINE P.**  
Dsc, SM2:Mar 66:173:4701, of "Permeability of Compacted Clay", SM4:Jul 65:41:4392
- KARR, SUBIR**  
See Y. R. Reddy, PO1:Jan 66:146:4598
- KASHEF, ABDEL-AZIZ I.**  
Exact Free Surface of Gravity Wells, HY4: Jul 65:167:4413  
Dsc: Mostafa M. Soliman, HY2:Mar 66:431: 4708

**KASHEF, ABDEL-AZIZ I. Continued**

Clo: HY4:Jul 66:160:4859

TR:131:798

Dsc, ST5:Oct 66:350:4922, of "Eccentrically Loaded Trapezoidal or Round Footings", ST1: Feb 66:161:4670

Dsc, IR4:Dec 66:100:4895, of "Eliminating Waterlogging Caused by Canal Seepage", IR2: Jun 66:33:4840

**KATZ, WILLIAM J.**

See Arlyn E. Albrecht, SA1:Feb 66:183:4686

**KAUFMAN, R. I.**

Engineering Measurements for Port Allen Lock, with W.C. Sherman, Jr., SM5:Sep 64: 221:4020

Dsc: Dewey M. McCain, SM3:May 65:131: 4308

Clo: SM6:Nov 65:98:4525

TR:131:29

**KAUFMAN, WARREN J.**

See Howard S. Harris, SA6:Dec 66:95:5027

See Robert L. Sanks, SA6:Dec 66:57:5037

**KAUFMANN, CARL P.**

Dsc, WW4:Nov 66:61:4927, of "Flow Measurement Techniques for Hydraulic Dredges", WW1: Feb 66:109:4683

**KAVANAGH, THOMAS C.**

Arecibo Radar-Radio Telescope--Design and Construction, with David H.H. Tung, CO1: May 65:69:4323

Dsc: Nai C. Yang, CO1:Jan 66:93:4597;

William E. Gordon, CO1:Jan 66:94:4597;

Donald J. Belcher, CO1:Jan 66:96:4597

Clo: CO3:Sept 66:81:4889

TR:131:625

Maintenance--The Systems Approach, with Sidney M. Johnson, CE:July 66:31

A Modern Building Code for New York, N.Y., with Sidney M. Johnson, CE:Sept 66:66

Structural Maintenance--the Third Element in the Structural Engineer's Professional Package, with S.M. Johnson, CE:May 65:52

TR:131:309

**KAWALA, EDWARD L.**

Cement-Treated Subbase Practice in U.S. and Canada, HW2:Oct 66:75:4847

**KEELEY, JACK W.**

See Malcolm F. Kallus, SA5:Oct 66:7:4930

**KEIM, PAUL F.**

Dsc, HY6:Nov 66:241:4959, of "Design Drought Criteria", HY2:Mar 66:233:4731

Dsc, CO1:Jan 66:81:4597, of "Designing Specifications--A Challenge", CO1:May 65:29:4315

Dsc, SA1:Feb 66:329:4637, of "How to Plan an Inconsequential Research Project", SA4:Aug 65: 19:4437

Dsc, AT2:Nov 66:110:4955, of "Modulus of Deformation of Pavement Bases", AT1:Jan 66: 95:4613

Dsc, CO1:Jan 66:102:4597, of "Quality Control in Construction", CO1:May 65:141:4340

Dsc, IR4:Dec 66:92:4995, of "Salinity Problems and Management in River Systems", IR1: Mar 66:77:4733

**KEIM, S. RUSSELL**

Elastic Stability of Radially Nonhomogeneous Rings, EM4:Aug 65:115:4447

TR:131:786

**KEINER, EDWARD P. JR.**

Post-tensioned Viaduct Piers, CE:Jan 65:72

TR:131:79

**KELLER, JACK**

Effect of Irrigation Method on Water Conservation, IR2:Jun 65:61:4364

Dsc: Lee Chow, IR1:Mar 66:109:4700

Clo: IR3:Sept 66:71:4892

TR:131:834

**KELLERMANN, JOHN L.**

Toronto Office-Building Complex Breaks Records, CE:May 65:62

TR:131:368

**KELLOGG, F. H.**

Dsc, CO1:Jan 66:89:4597, of "Designing Specifications--A Challenge", CO1:May 65:29:4315

**KENNEDY, JOHN F.**

Nomenclature for Bed Forms in Alluvial Channels: Report of the Task Force on Bed Forms in Alluvial Channels, HY3:May 66:51:4823

See Hitoshi Kinno, HY3:May 65:247:4343

**KENNEY, T. CAMERON**

See Lauritis Bjerrum, SM1:Jan 65:111:4210

Pore Pressures and Bearing Capacity of Layered Clays, SM4:Jul 64:27:3960

Dsc: A.A. Fungaroli, SM1:Jan 65:212:4197; D.

L. Townsend, SM2:Mar 65:98:4257; M.R. Mad-

hav and A. Sridharan, SM2:Mar 65:102:4257; I.

da Silverira, SM2:Mar 65:105:4257

Clo: SM1:Jan 66:157:4594

TR:131:462

**KEPPEL, ROBERT V.**

See Kenneth G. Renard, HY2:Mar 66:33:4710

**KESHAVA, SATYA P.**

See Jan D. Achenbach, EM2:Apr 66:113:4781

**KETT, IRVING**

Dsc, on the education for the practicing civil engineer, CE:June 66:78

**KHAN, A. R.**

See P.J. Anderson, CE:Aug 65:65

**KHAN, FAZLUR R.**

Computer Design of 100-Story John Hancock Center, with Srinivasa H. Iyengar and Joseph P. Colaco, ST6:Dec 66:55:5003

Interaction of Shear Walls and Frames, with John A. Sbarounis, ST3:Jun 64:285:3957

**KHAN, FAZLUR R. Continued**

Dsc: Yoshio E. Yamamoto, ST1:Feb 65:317;  
4216  
Clo: ST2:Apr 66:389:4759  
TR:131:247

**KICHER, THOMAS P.**

Optimum Design--Minimum Weight Versus  
Fully Stressed, ST6:Dec 66:265:5014

**KIDBY, HAROLD A.**

"Placed-Stone" Jetty, Stone-Weight Coef-  
ficients, with Samuel B. Powell and Arthur L.  
Roberts, WW4:Nov 64:77:4134  
Dsc: Harry S. Perdakis, WW2:May 65:58:  
4307; Robert Q. Palmer, WW3:Aug 65:153:4420  
Clo: WW1:Feb 66:132:4639  
TR:131:203

**KIMBALL, VERNON L.**

Dsc, SU1:Jan 66:47:4593, of "Vertical Control  
on the Great Lakes", SU1:Apr 65:35:4289

**KIMBALL, WILLIAM P.**

Joins ASCE headquarters staff as Assistant  
Secretary-Education, CE:June 66:86

**KINDSVATER, CARL E.**

Trend in Water Resources Education, PP2:May  
64:1:3889  
Dsc: N. T. Veatch, PP1:Jan 65:37:4186; Roy  
M. Green, PP1:Jan 65:38:4186; Eugene W.  
Weber, PP1:Jan 65:39:4186; Gordon R. Wil-  
liams, PP1:Jan 65:40:4186; Janusz R. Rydzew-  
ski, PP1:Jan 65:41:4186; Ray K. Linsley, PP1:  
Jan 65:42:4186; John W. Foster, PP1:Jan 65:  
42:4186; Charles D. Curran, PP2:Sep 65:80:  
4454; Thorndike Saville, PP2:Sep 65:83:4454  
Clo: PP1:May 66:65:4804  
TR:131:369

**KING, ELWYN H.**

Electronic Computation: Past, Present, Poten-  
tial, ST6:Dec 66:3:5000

**KING, J. W.**

See, J. H. Millett, CE:Oct 66:58

**KING, K. M.**

See T. J. Gillespie, HY5:Sept 66:230:4891

**KINNEY, JOHN W.**

Verrazano-Narrows Bridge: Fabrication and  
Construction of Superstructure, with Herbert  
Rothman, and Frank Stahl, CO2:Mar 66:119:4745

**KINNO, HITOSHI**

Water-Hammer Charts for Centrifugal Pump  
Systems, with John F. Kennedy, HY3:May 65:  
247:4343  
Dsc: Benjamin Donsky and Franklin G. De-  
fazio, HY1:Jan 66:144:4596; Henry M. Payn-  
ter, Jr., and Joseph C. Free, HY2:Mar 66:  
379:4708

**KINORI, B. Z.**

See A. Ben-Zvi, HY5:Sept 66:292:4891

**KINZEL, AUGUSTUS B.**

Washington Award goes to Augustus B.  
Kinzel, CE:Jul 66:71

**KIRCHGEISSNER, T. E.**

Dsc, EM5:Oct 66:137:4921, of "Flow Graph  
Solutions of Band Matrix Problems", EM1:  
Feb 66:25:4656

**KIRJASSOFF, GORDON L.**

Esthetics for the Highway Engineer, CE:Jan  
66:69  
Dsc: Emery Hertelendy, CE:Mar 66:74; Leon  
Goodman, CE:Apr 66:65

**KIRKHAM, DON**

Steady-State Theories for Drainage, IR1:  
Mar 66:19:4707  
Dsc: Mostafa M. Soliman, IR3:Sept 66:81:  
4892; Hammad Y. Hammad, IR4:Dec 66:75:  
4995; Abdel-wahab M. Amer, IR4:Dec 66:76:  
4995; E. G. Youngs, IR4:Dec 66:77:4995,  
Gedeon Dagan, IR4:Dec 66:82:4995; A. W.  
Warrick, IR4:Dec 66:84:4995  
See Sadik Taksoz, IR3:Sept 65:65:4477

**KIRKLAND, GEORGE H.**

Florida--Criteria for Construction in Creat-  
ing Another Cape Kennedy Colossus, CE:Oct 65:  
59  
TR:131:694

**KISSAM, PHILIP**

Dsc, SU2:Jun 66:62:4832, of "Current Prob-  
lems in Property Location", SU2:Sep 65:1:4465

**KJAERNSLI, B.**

See Lauritis Bjerrum, SM1:Jan 65:111:4210

**KLATTE, GEORG**

See Rudolph F. Fischl, CE:Feb 65:60

**KLAWITTER, RALPH A.**

Forest Drainage Research in the Coastal  
Plain, with Cortland E. Young, Jr., IR3:Sep 65:  
1:4456  
Dsc: Mortimer R. Lewis, IR1:Mar 66:110:  
4700  
Clo: IR3:Sept 66:72:4892  
TR:131:736

**KLEIN, EDWARD J.**

Dsc, WW4:Nov 66:60:4957, of "Flow Measure-  
ment Techniques for Hydraulic Dredges", WW1:  
Feb 66:109:4683

**KLOHN, EARLE J.**

Buckling of Long Unsupported Timber Plates,  
with G. T. Hughes, SM6:Nov 64:107:4141  
Dsc: Melvin T. Davisson, SM4:Jul 65:224:  
4394  
Clo: SM1:Jan 66:169:4594  
TR:131:235

- KNAPP, DOUGLAS J.**  
See W. Douglas Baines, HY2:Mar 65:205:4270
- KNAPP, WILLIAM J.**  
See Francis R. Shanley, ST4:Aug 65:47:4429
- KNEESE, ALLEN V.**  
The Ruhr and the Delaware, SA5:Oct 66:83:
- KOCSIS, PETER**  
Dsc, SM1:Jan 66:183:4594, of "Design of Laterally Loaded Piles", SM3:May 65:79:4342
- KOH, ROBERT C. Y.**  
Dsc, WW1:Feb 66:136:4639, of "A Study on Refraction of Waves in Prismatic Channels", WW3:Aug 65:37:4434
- KOKINOPOULOS, E. F.**  
Aseismic Design of Multistory Systems, ST3:Jun 66:77:4842
- KOMURA, SABURO**  
Equilibrium Depth of Scour in Long Constrictions, HY5:Sept 66:17:4898
- KONSKI, J. L.**  
Appointed Director for District 3, CE:July 66:43
- KOSTRO, GEORGE M.**  
The Prestressed Glued Joint for Steel Connections, CE:Apr 65:75  
TR:131:294
- KOUNTZ, R. RUPERT**  
See Kenneth E. Hartz, SA2:Apr 66:83:4771
- KRAMER, EARL J.**  
Dsc, CE:May 66:74, on "Representation on the Board of Direction" (The Younger Viewpoint) CE:Dec 65:80  
Dsc: James W. Bowman, CE:July 66:70
- KRENKEL, PETER A.**  
See Rex A. Elder, HY6:Nov 66:61:4975
- KRINITZKY, ELLIS L.**  
See Willard J. Turnbull, SM1:Jan 66:121:4632
- KRISHNASWAMY, KASHI T.**  
Dsc, ST5:Oct 66:347:4922, of "Flexural Analysis of Coplanar Frames", ST1:Feb 66:131:4669
- KRIZ, GEORGE J.**  
Analyses of Parameters of an Unconfined Aquifer, with Verne H. Scott and Robert H. Burg, HY5:Sept 66:49:4901  
Graphical Determination of Confined Aquifer Parameters, with Verne H. Scott and Robert H. Burg, HY5:Sept 66:39:4899
- KRIZEK, RAYMOND J.**  
Approximation for Terzaghi's Bearing Capacity Factors, SM2:Mar 65:1:4247  
TR:131:55
- KROKOSKY, EDWARD M.**  
An Applied Science of Materials for Civil Engineers, CE:Jul 65:54  
Dsc: Archie Mathews, CE:Oct 65:81; Consuelo M. Hauser, CE:Oct 65:81  
TR:131:436
- KRONE, RAY B.**  
See Howard S. Harris, SA6:Dec 66:95:5027
- KRYNICKI, EDWARD J.**  
Frames of Solid Bars of Varying Cross Sections, with Zbigniew E. Mazurkiewicz, ST4:Aug 64:145:4010  
Dsc: Shou-ling Wang, ST1:Feb 65:318:4216; S. Z. Al-Sarraf, ST1:Feb 65:320:4216; Keiichi Hayashi, ST2:Apr 65:197:4285  
TR:131:716
- KULAK, GEOFFREY L.**  
Dsc, with John N. Fisher, ST4:Aug 66:102:4871, of "Brittleness in Higher Strength Bolts", ST1:Feb 66:89:4666  
See Richard J. Christopher, ST2:Apr 66:19:4768
- KUMAR A.**  
Flow Visualization Across Main Flow, HY1:Jan 66:65:4626  
Dsc, Wallace M. Lansford, HY5:Sept 66:253:4891; Charles E. Behlke and Harold D. Pritchett, HY5:Sept 66:253:4891
- KUMKE, GORDON W.**  
See Richard A. Conway, SA2:Apr 66:21:4757
- KUPCHIK, GEORGE J.**  
Economics of Composting Municipal Refuse in Europe and Israel, SA6:Dec 66:41:5036
- KUPFERMAN, ARNOLD**  
See Armando Balloffet, HY6:Nov 64:63:4133
- LACY, FLOYD P. JR.**  
Tenn.--Nickajack Dam, a Replacement for Hales Bar, with Ward W. Engle, CE:Jul 65:50  
TR:131:391
- LA FRANCE, GARY G.**  
See Dalim K. Majumdar, SM2:Mar 66:171:4701  
See Dalim K. Majumdar, CE:Jul 66:68  
See Dalim K. Majumdar, SM6:Nov 66:251:4958
- LAI, CHINTU**  
Dsc, HY3:May 66:96:4805, of "Computer Simulation of Estuarial Networks", HY5:Sep 65:33:4470
- LAI, FU-HSIUNG**  
See Wen-Hsiung Li, HY6:Nov 66:141:4986
- LAIRD, ALAN D. K.**  
Flexibility in Cylinder Groups Oscillated in Water, WW3:Aug 66:69:4884
- LAIRD, MAX O.**  
Arctic Siting and Surveying, SU1:Apr 65:1:4287  
TR:131:829



**LAKSHMANA RAO, NAGAR S.**

Characteristics of M1 Backwater Curves, with K. Sridharan, HY6:Nov 66:131:4985

Dsc, with K. Sridharan, HY6:Nov 66:237:4959, of "Dividing Flow in an Open Channel", HY2: Mar 66:207:4730

See B. C. Syamala Rao, PO1:Jan 66:141:4598

See B. C. Syamala Rao, HY4:Jul 66:173:4859

**LAMBE, T. WILLIAM**

Methods of Estimating Settlement, SM5:Sep 64:43:4060

Dsc: I. da Silverira, SM3:May 65:159:4308  
TR:131:65

See Harry M. Horn, SM5:Sep 64:181:4038

**LAMPERT, J. B.**

Dsc, CE:May 66:74 of "Sylvanus Thayer, P.E. No. 1," CE:Feb 66:33

**LANG, EDMUND H.**

The Review Function in Water Resources Development, PO:Jan 66:39:4622

Dsc, WW4:Nov 66:43:4957, of "Practical Tonage Capacity of Canalized Waterways", WW1: Feb 66:33:4644

Dsc, SU1:Jan 66:46:4593, of "Vertical Control on the Great Lakes", SU1:Apr 65:35:4289

**LANGE, FRED E.**

Washington--Seattle's Record-Breaking Sewage-Treatment System, CE:Mar 65:31

TR:131:151

**LANGFELDER, LEONARD J.**

See Roy E. Olson, SM4:Jul 65:127:4409

**LANSFORD, WALLACE M.**

Dsc, HY5:Sept 66:253:4891, of "Flow Visualization Across Main Flow", HY1:Jan 66:65:4626

**LARSEN, PETER**

See Stig Angelin, HY4:Jul 66:201:4859

**LASZLO, GEORGE**

Expanding a Prestressed Concrete Plant, CE: Apr 65:42

TR:131:259

**LAUGHLIN, JAMES E.**

Studies in Force Main Aeration, SA6:Dec 64: 13:4150

TR:131:179

**LAUGHTER, CLYDE N.**

Dsc, SM1:Jan 66:176:4594, of "Some Swelling Characteristics of Compacted Clays", SM3: May 65:1:4316

**LAURA, PATRICIO A.**

Dsc, EM3:Jun 66:108:4828, of "Elastic Torsional Analysis of Irregular Shapes", EM6: Dec 65:11:4562

**LAURSEN, E. M.**

See J. F. Harp, CE:Oct 65:85

**LAUSHEY, LOUIS T. M.**

See Frederic T. Davis, HY5:Sept 66:288:4891

**LAVERTY, BRUCE R.**

Dsc, HY4:Jul 66:190:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6: Nov 65:123:4534

See Ralph W. Spencer, PO3:Oct 64:105:4087

**LAW, SHIU WAI**

Dividing Flow in an Open Channel, with Alan J. Reynolds, HY2:Mar 66:207:4730

Dsc: Wen-Hsiung Huang, HY5:Sept 66:278: 4891; N. S. Lakshmana Rao and K. Sridharan, HY6:Nov 66:237:4959

**LAWHON, LESTER F.**

Water Management on Ricelands in Louisiana, with Louis W. Herndon, IR4:Dec 65:23:4589

Dsc: Clyde E. Houston, IR3:Sept 66:76:4892

**LAWLER, JOHN P.**

Dsc, CE:Oct 66:67 on "Do You Know That" item about salt-water barriers, CE:July 66:33

**LAWRANCE, CHARLES H.**

Design Aspects of Lompoc Water Treatment Plant, SA6:Dec 64:81:4181

Dsc: H. L. Thackwell, SA4:Aug 65:65:4421

Clo: SA1:Feb 66:290:4637

TR:131:275

**LAWRENCE, ROBERT F.**

Dsc, UP1:May 66:96:4806, of "Aesthetic Design of Electric Distribution Lines", UP1: Jul 65:31:4400

**LAWSON, JOHN D.**

See Alan K. Parkins, SM6:Nov 66:135:4973

**LAWSON, LEROY D.**

Chile--Seabees Give Technical Assistance in Chile, CE:Feb 65:47

TR:131:110

**LAWTON, FREDERIC L.**

Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures, ASCE, HY6:Nov 65:123:4534

Dsc: James M. Robertson, HY4:Jul 66:168: 4859; B. C. Syamala Rao and N. S. Lakshmana Rao, HY4:Jul 66:173:4859; N. K. Gupta, HY4: Jul 66:176:4859; Fred W. Blaisdell, HY4: Jul 66:179:4859; D. E. Wright, HY4:Jul 66: 183:4859; Herbert G. Bosny, HY4:Jul 66:186: 4859; Bruce R. Lavery, HY4:Jul 66:190:4859; Alan A. Smith and David I. H. Barr, HY4: Jul 66:195:4859; Lennart Rahm, HY4:Jul 66: 197:4859; David Anderson and Peter M. Palmer, HY4:Jul 66:198:4859; Milton A. Chapple, HY4:Jul 66:199:4859; Stig Angelin

**LAWTON, FREDERIC L.** Continued  
and Peter Larsen, HY4:Jul 66:201:4859;  
Walter A. Mechler, HY4:Jul 66:203:4859

**LAY, MAXWELL G.**

Bracing Requirements for Inelastic Steel Beams, with Theodore V. Galambos, ST2: Apr 66:207:4785  
Flange Local Buckling in Wide-Flange Shapes, ST6:Dec 65:95:4554  
Errata: ST5:Oct 66:325:4922  
TR:131:806  
Inelastic Steel Beams Under Uniform Moment, with Theodore V. Galambos, ST6:Dec 65:67:4566  
Errata: ST5:Oct 66:325:4922  
TR:131:832  
Role of Strain Hardening in Plastic Design, with Paul D. Smith, ST3:Jun 65:25:4355  
Dsc: Alexander P. Hrennikoff, ST5:Oct 65: 407:4498; Myron W. Chin, ST1:Feb 66:476:4638  
Clo: ST4:Aug 66:53:4871  
Yielding of Uniformly Loaded Steel Members, ST6:Dec 65:49:4580  
Errata: ST5:Oct 66:326:4922  
TR:131:800  
See Theodore V. Galambos, ST4:Aug 65:125: 4444

**LAZARR, THADDEUS R. L.**

Waterproofing Below the Ground Line, CE: Jun 65:73  
TR:131:400

**LEABU, VICTOR F.**

Lunar Launch Complex 39, CE:May 66:37

**LEDBETTER, JOE E.**

Environmental Hazards of Radioactive Wastes, SA1:Feb 65:59:4237  
TR:131:615

**LEE, G. FRED**

See Rex A. Elder, HY6:Nov 66:61:4975

**LEE, I. K.**

Stress-Dilatancy Performance of Feldspar, SM2:Mar 66:79:4734

**LEE, KENNETH L.**

See H. Bolton Seed, SM6:Nov 66:105:4972

**LEE, LAWRENCE H. N.**

See Allan J. Malvick, EM3:Jun 65:113:4372

**LEE, SENG-LIP**

Buckling of Eccentrically Loaded Steel Columns, with S. C. Anand, ST2:Apr 66:351:4796  
Dsc: Theodore V. Galambos, ST5:Oct 66: 392:4922  
See Walid H. Rimawi, EM1:Feb 66:11:4636  
See Bertram J. Thorn, EM1:Feb 66:59:4658

**LEE, TI-TA**

Dsc, ST2:Apr 66:447:4759, of "Analysis of Continuous Folded Plate Surface", ST6:Dec 65: 117:4555

**LEET, KENNETH M.**

Study of Stability in the Hyperbolic Paraboloid, EM1:Feb 66:121:4677  
Dsc: Jehangir F. Mirza, EM4:Aug 66:86: 4874; Melton M. Miller, Jr., EM5:Oct 66:142: 4921; Cary K.K. Mak, EM6:Dec 66:238:4994

**LEGGET, ROBERT F.**

Dsc, CE:June 66:79 of "Specifying Heavy Equipment," CE:Jan 66:63

**LEIGH, GERALD M.**

Dsc, SA3:Jun 66:14:4830, of "Field Estimates of Oxygen Balance Parameters", SA5:Oct 65:1: 4485

**LEISCH, JACK E.**

New Techniques in Alinement Design and Stakeout, HW1:Mar 66:23:4711

**LELAND, THOMAS E.**

Short Span Sag Calculations with Insulator Bells, PO1:May 65:11:4317  
Corr: PO2:Apr 66:51:4763  
TR:131:127

**LEMESSURIER, WILLIAM J.**

Dsc. & Corr., CE:Sept 66:81 of fire-proofing steel columns, CE:Jun 66:98

**LENNOX, DONALD H.**

Analysis and Application of the Step-Drawdown Test, HY6:Nov 66:25:4967

**LENNOX, WILLIAM C.**

See Archibald N. Sherbourne, EM2:Apr 66:75: 4775

**LENZ, ARNO T.**

See David A. Woolhiser, HY3:May 65:165:4333

**LEONARDS, GERALD A.**

Compressibility of Clay, with Adolph G. Altschaeffl, SM5:Sep 64:133:4049  
Dsc: Laing Barden, SM3:May 65:144:4308  
TR:131:303  
Dsc, with A. G. Altschaeffl, SM4:Jul 66:86: 4860, of "Consolidation of Normally Consolidated Clay", SM5:Sep 65:15:4481

**LEONHARDT, FRITZ**

Dsc, ST2:Apr 66:427:4759, of "Strength and Behavior of Deep Beams in Shear", ST5:Oct 65: 19:4496

**LESTER, MURRAY D.**

Dsc, PO2:Apr 66:53:4763, of "The Lewis Smith Rockfill Dam", PO1:Jan 66:81:4633

**LETOILE, HENRY A.**

Turning Engineers into Construction Men, CE: Apr 66:42  
Dsc, Van Rennselaer P. Saxe, CE:June 66:79

**LEVI, VICTOR**

Structural Subassemblages Prevented from Sway, with George C. Driscoll, Jr. and Le-Wu Lu, ST5:Oct 65:103:4509

**LEVI, VICTOR Continued**

Dsc: James G. MacGregor, ST3:Jun 66:266;  
4831; Anatol A. Eremin, ST3:Jun 66:268;4831;  
Allan R. Gent, ST3:Jun 66:268;4831

**LEVY, IRA G.**

See Leo H. Just, CO2:Mar 66:71;4743

**LEWIS, ALBERT D. M.**

See John E. Johnson, ST2:Apr 66:283;4789

**LEWIS, MORTIMER R.**

Dsc, IR1:Mar 66:110;4700, of "Forest Drainage Research in the Coastal Plain", IR3:Sep 65:1;4456

**LEY, ROGER D.**

Economic Analysis of Pumped Storage Projects, PO2:Mar 66:77;4749

**LI, SHU-TIEN**

Dsc, UP1:May 66:82;4806, of "Aesthetic Considerations in City Construction", UP1:Jul 65:1;4389

Dsc, PP2:Dec 66:35;4992, of "Guide for the Civil Engineering Visitor on ECPD Accreditation Teams", Report of the Task Committee on Accreditation of the Committee on Engineering Education, PP1:May 66:1;4814

See Harvey R. Fraser, CE:Mar 66:71

**LI, WEN-HSIUNG**

Experiments on Lateral Dispersion in Porous Media, with Fu-Hsiung Lai, HY6:Nov 66:141;4986

**LIOVE, CHARLES**

Complementary Energy Method for Finite Deformations, EM6:Dec 64:49;4164

Dsc: Alan Jennings, EM4:Aug 65:203;4433; Mark Levinson, EM4:Aug 65:206;4433; Thomas M. Charlton, EM4:Aug 65:207;4433  
Clo: EM2:Apr 66:279;4747  
TR:131:414

Complementary Energy Theorem for Symmetric Shells, EM6:Dec 64:73;4149

Dsc: J. Valenta, EM1:Feb 66:199;4646  
Clo: EM4:Aug 66:73;4874  
TR:131:623

**LIEBMAN, JON C.**

Dsc, with Judith S. Liebman, SA3:Jun 66:32;4830, of "Data Handling Systems in Water Pollution Control", SA1:Feb 66:55;4652

**LIEBMAN, JUDITH S.**

See Jon C. Liebman, SA3:Jun 66:32;4830

**LIER, ARNE**

La Guardia Runways Extended over Water, with Eugene Fasullo, CE:Aug 66:32

**LIGGET, JAMES A.**

Initial Motion Problem in Porous Media, with Christos Hadjithodorou, HY3:May 65:61;4322  
Dsc: Gedeon Dagan, HY6:Nov 65:221;4527  
Clo: HY3:May 66:95;4805  
TR:131:408

Secondary Currents in a Corner, with Chao-Lin Chiu and Ling S. Mico, HY6:Nov 65:99;4538  
Dsc: B. B. Sharp, HY3:Sept 66:233;4891;  
Llewellyn E. Jones, HY5:Sept 66:236;4891

**LIN, PING-CHUAN**

See James V. Parcher, SM3:May 65:1;4316

**LIN, T. Y.**

Design of Prestressed Concrete Buildings for Earthquake Resistance, ST5:Oct 65:1;4488

Dsc: Emilio Rosenbluth, ST1:Feb 65:502;4638; Gordon H. McKenzie, ST3:Jun 66:259;4831; Colin F. Candy, ST3:Jun 66:259;4831  
Two Large Shells of Post-Tensioned Precast Concrete--Oklahoma Arena and Arizona Coliseum--with Ben W. Young, CE:Jul 65:56  
TR:131:488

**LIN, TUNG HUA**

Dsc, ST2:Apr 66:418;4759, of "Importance of Strain Hardening in Plastic Design", ST4:Aug 65:23;4424

**LIND, BRUCE A.**

Traffic Accident Study on Milwaukee Expressway, with H. Hong, HW1:Jan 65:25;4205

Dsc: Lawrence L. Ames, HW2:Dec 65:141;4548  
Clo: HW2:Oct 66:104;4919  
TR:131:810

**LIND, NIELS C.**

Analysis of Deflections in Elastic-Plastic Frames, ST3:Jun 65:197;4381

Dsc: Anatol A. Eremin, ST1:Feb 66:497;4638; Michele Pagano and Frederico M. Mazzolani, ST2:Apr 66:410;4759  
Clo: ST5:Oct 66:317;4922  
See F. Ellyin, EM1:Feb 66:1;4651

**LINDNER, CLEMENT P.**

See Henry C. C. Weinkauff, PO1:Jan 66:15;4606

**LINDSETH, E. V.**

The Pacific Northwest-Pacific Southwest Intertie, CE:Dec 66:46

**LINDSEY, JAMES A.**

Perpetuation of Land Survey Data, SU2:Jun 66:31;4856

**LING, JOSEPH T.**

Encourage Applied Research and Publish the Findings, SA4:Aug 66:1;4876

**LINN, JOHN NELSON**

See W. O. Hiltabide, Jr., CO1:May 65:141;4340

**LINSLEY, RAY K.**

Dsc, HY5:Sept 66:251;4891, of "Time in Urban Hydrology", HY1:Jan 66:13;4615  
See James A. Morgali, HY3:May 65:81;4325

- LIPETZ, MORTON B.**  
Dsc, CE:June 66:79, of "Remote Conversational Computing in Civil Engineering," CE:Apr 66:39
- LIPSCOMB, ERNEST B.**  
See Ellsworth I. Davis, CE:Nov 65:64
- LITTLE, WILLIAM A.**  
Computer System Designed for Teaching and Structural Research at MIT, with Kenneth F. Reinschmidt, CE:Aug 65:71  
TR:131:542  
Dsc, ST2:Apr 66:438;4759, of "Test of a Reinforced Concrete Flat Plate", ST5:Oct 65:205;4514  
See Leon R. L. Wang, EM:Dec 66:101:5035
- LITTLE, ROBERT W.**  
See Alois L. Schlack, EM5:Oct 64:171:4089
- LITTLEFIELD, J. N.**  
Charts Simplify Reinforced-Masonry Design, CE:Aug 65:73  
TR:131:485
- LIVER, NORMAN L.**  
Augured-in Concrete Piles Support Boeing Aerospace Activities, CE:Oct 66:60
- LIVESEY, ROBERT H.**  
See Donald C. Bondurant, HY5:Sep 65:51:4473
- LO, KAM-SHING**  
See Alexander C. Scordelis, ST3:Jun 66:270:4831  
See Alexander C. Scordelis, ST3:Jun 66:281:4831
- LO, KWAN YEE**  
Stability of Slopes in Anisotropic Soils, SM4:Jul 65:85:4405  
Dsc: George G. Meyerhof, SM6:Nov 65:132:4525; Peter Lumb, SM1:Jan 66:199:4594; John H. Schmertmann, SM1:Jan 66:203:4594  
Clo: SM4:Jul 66:77:4860  
TR:131:518
- LOCHER, FREDERICK A.**  
See John R. Glover, EM6:Dec 66:257:4994
- LOEHR, RAYMOND C.**  
An Oxidation Pond as a Tertiary Treatment Device, with Ralph L. Stephenson, SA3:Jun 65:31:4351  
Dsc: Man M. Varma and Charles Neos, SA1:Feb 66:313:4637  
Clo: SA5:Oct 66:99:4920  
TR:131:877
- LOGAN, DOUGLAS H.**  
See Hal W. Hunt, CO1:Jan 66:1:4604
- LOGAN, JOHN A.**  
Dsc, CE:Mar 66:86, on 1965 Annual Report
- LOGCHER, ROBERT D.**  
STRUDEL--A Computer System for Structural Design, with Gerald M. Struman, ST6:Dec 66:191:5010
- LOMAX, CLAUD C.**  
Graphical Solution for Branching Pipe Flows, PL1:Mar 66:13:4718  
Spillway Discharge Coefficients for Rock Island Dam, HY3:May 65:19:4320  
Dsc: David N. Raffel, HY6:Nov 65:214:4527; Edward J. Groscurth, HY1:Jan 66:89:4596  
Clo: HY4:Jul 66:134:4859  
TR:131:539
- LONG, CARL F.**  
Vibration of a Radially Loaded Spherical Shell, EM2:Apr 66:235:4798
- LONG, LESLIE D.**  
See W. O. Hiltabidle, Jr., CO1:May 65:141:4340
- LO PINTO, VICTOR J.**  
Dsc, SM1:Jan 66:195:4594, of "Standard Penetration Test: Its Uses and Abuses", SM4:Jul 65:67:4395
- LORE, EDWARD**  
See Hal W. Hunt, CO1:Jan 66:1:4604
- LOUNT, ALBERT M.**  
Computer Analysis of Underground Frames, with W. R. Smyth, ST6:Dec 66:93:5005
- LOVELACE, ELDRIDGE H.**  
The Civil Engineer and Urban Planning, UP1:May 66:1:4809
- LOW, EDWARD J.**  
Dsc, IR2:Jun 66:104:4829, of "Pumping Plant Operation and Maintenance Costs", IR4:Dec 65:37:4579
- LOW, W. IRVINE**  
Dsc, CE:July 66:69, on News Brief item on Rampart Canyon Dam, CE:Apr 66:79
- LOWE, JOHN, III**  
Consolidation Testing with Back Pressure, with Philip F. Zacheo and Harvey S. Feldman, SM5:Sep 64:69:4058  
Dsc: Peter W. Rowe, SM3:May 65:153:4308  
Clo: SM1:Jan 66:167:4594  
TR:131:121
- LOWITZ, CLEMITH A.**  
See Wesely G. Holtz, SM5:Sep 65:1:4476
- LU, LE-WU**  
Inelastic Buckling of Steel Frames, ST6:Dec 65:185:4577  
TR:131:870  
See Victor Levi, ST5:Oct 65:103:4509
- LU, ZUNG-AN**  
See Egor P. Popov, EM5:Oct 64:119:4085
- LUCAS, CHESTER L.**  
Dsc, CE:June 66:78, of "Foreign Contracts Subject to the Approval of AID," CE:Mar 66:62

- LUEDER, DONALD R.**  
See M. D. Morris, SA1:Feb 65:1:4220
- LUMB, PETER**  
Dsc, SM1:Jan 66:199:4594, of "Stability of Slopes in Anisotropic Soils", SM4:Jul 65:85:4405
- LUNCHICK, MYRON E.**  
Dsc, EM2:Apr 66:295:4747, of "Free Vibrations of Conical Shells", EM4:Aug 65:69:4440
- LUNDGREN, RAYMOND**  
Electric Piezometer for Field Installation CE: Aug 66:52  
See H. Bolton Seed, SM4:Jul 64:107:3983  
See H. Bolton Seed, SM6:Nov 64:75:4140
- LUSCHER, ULRICH**  
Buckling of Soil-Surrounded Tubes, SM6: Nov 66:211:4990
- LYCAN, DANIEL L.**  
Engineering Challenges of Lunar Exploration, CE:Dec 65:40  
TR:131:726
- LYNN, WALTER R.**  
See Richard M. Shane, HY6:Nov 64:1:4119
- LYSMER, J.**  
Dynamic Response of Footings to Vertical Loading, with F. E. Richart, Jr., SM1:Jan 66: 65:4592  
Dsc: Gerd F. Weissmann, SM5:Sept 66:133: 4890; Otto W. Steinhardt, SM5:Sept 66:139:4890
- MACGREGOR, JAMES G.**  
Dsc, ST3:Jun 66:266:4831, of "Structural Sub-assemblies Prevented from Sway", ST5:Oct 65: 103:4509
- MACKALL, MURRAY RANDOLPH**  
Memoir of, TR:131:903
- MACKINTOSH, CHARLES**  
Earthquake Damping in Building Frames, CE: June 66:70
- MACKINTOSH, IAN B.**  
Dsc, PO1:Jan 66:139:4598, of "Hydroelectric Developments in the Scottish Highlands", PO1: May 65:23:4318
- MADDOCK, THOMAS, JR.**  
Dsc, HY6:Nov 66:260:4959, of "Hydraulic Resistance of Alluvial Streams", HY2:Mar 66: 315:4739  
Dsc, HY6:Nov 66:271:4959, of "Similarity Laws for Localized Scour", HY3:May 66:13:4818
- MADISON, R. B.**  
Unpainted Steel for Permanent Structures, CE:Feb 66:68
- MADSEN, WAYNE A.**  
See David Bushnell, EM6:Dec 66:157:5046
- MAGRUDER, WILLIAM**  
Operation of the Supersonic Transport at Airports, AT2:Oct 64:31:4092  
TR:131:351
- MAGURA, DONALD D.**  
Tests of Partially Prestressed Concrete Girders, with Elvind Hognestad, ST1:Feb 66: 327:4685  
Dsc: Alan M. Ozell, ST5:Oct 66:371:4922
- MAHAFFAY, BILLY R.**  
Dsc, with Wayne J. Ferguson, WW4:Nov 66: 41:4957, of "Practical Tonnage Capacity of Canalized Waterways", WW1:Feb 66:33:4644
- MAHER, F. J.**  
Wind Loads on Basic Dome Shapes, ST3:Jun 65: 219:4383  
TR:131:103  
Wind Loads on Dome-Cylinder and Dome-Cone Shapes, ST5:Oct 66:79:4933
- MAHONE, LESLIE W.**  
Dsc, SU2:Jun 66:51:4832, of "Current Problems in Property Location", SU2:Sep 65:1:4465  
Dsc, SU2:Jun 66:66:4832, of "Relationship of Offset Center Line to Given Base Line", SU2: Sep 65:39:4479
- MAIER, GIULIO**  
Behavior of Elastic Plastic Trusses with Unstable Bars, EM3:Jun 66:67:4858  
Corr: EM6:Dec 66:260:4994
- MAJUMDAR, DALIM K.**  
Stress-Strain Relationships in Triaxial and Consolidation Tests, with Gary G. La France, CE:July 66:68  
Dsc, with Gary G. LaFrance, SM6:Nov 66:251: 4958, of "A Method for Earthquake Resistant Design of Earth Dams", SM1:Jan 66:13:4618  
Dsc, with Gary G. LaFrance, SM2:Mar 66:171: 4701, of "Permeability of Compacted Clay", SM4:Jul 65:41:4392
- MAK, CARY K. K.**  
Dsc, EM6:Dec 66:238:4994, of "Study of Stability in the Hyperbolic Paraboloid", EM1: Feb 66:121:4677
- MALVICK, ALLAN J.**  
Buckling Behavior of an Inelastic Column, with Lawrence H. N. Lee, EM3:Jun 65:113:4372  
Dsc: Steven C. Batterman, EM1:Feb 66:209: 4646  
Clo: EM3:Jun 66:104:4828  
TR:131:692
- MANER, ALFRED W.**  
Public Works in Ancient Mesopotamia, CE: July 66:50

- MANSUR, CHARLES I.**  
Pumping Test to Determine Permeability Ratio, with Rudy J. Dietrich, SM4:Jul 65:151:4415  
Dsc: Walter C. Sherman, Jr., SM2:Mar 66: 192:4701
- MARGOLIN, MARTIN N.**  
See Robert A. Williamson, ST2:Apr 66:419: 4759  
See Robert A. Williamson, ST5:Oct 66:213: 4951  
See Robert A. Williamson, ST5:Oct 66:354: 4922
- MARK, ROBERT**  
See David G. Elms, EM4:Dec 65:69:4441
- MARLOW, THOMAS A.**  
Improved Design of Fluid Networks with Computers, with R. Logan Hardison, Henry Jacobson and Gilbert E. Biggs, HY4:Jul 66:43:4866
- MARQUIS, ROBERT H.**  
Implications of Water Rights for Engineers, IR1:Mar 66:49:4721
- MARTEL, ROMEO RAOUL**  
Memoir of, TR:131:904
- MARTIN, G. R.**  
See H. Bolton Seed, SM3:May 66:25:4824
- MARTIN, JOHN B.**  
Impulsive Loading Theorems for Rigid-Plastic Continua, EM5:Oct 64:27:4072  
TR:131:746  
Mode Approximations for Impulsively-Loaded Rigid-Plastic Structures, with Paul S. Symonds, EM5:Oct 66:43:4938
- MARTINEZ-MARQUEZ, ALEJANDRO**  
General Theory for Thick Shell Analysis, EM8:Dec 66:185:5048
- MASCH, FRANK D.**  
Abstracted Bibliography on Erosion of Cohesive Materials: Task Committee on Erosion of Cohesive Materials, Committee on Sedimentation, ASCE, HY2:Mar 66:243:4746  
Dsc: A. Ben-Zvi and B. Z. Kinori, HY5: Sept 66:292:4891; Charles R. Neill, HY5:Sept 66:293:4891; Fred W. Blaisdell, HY6:Nov 66: 263:4959
- MASSEY, CAMPBELL**  
Inelastic Lateral Stability Under a Moment Gradient, with F.S. Pitman, EM2:Apr 66:101: 4779
- MAST, PAUL E.**  
Analysis Comparisons for Single Curved Shell Roofs, ST2:Apr 66:1:4282  
Dsc: A. Mehmel, ST6:Dec 65:290:4547  
Clo: ST3:Jun 66:253:4831  
TR:131:790
- MASUR, ERNEST F.**  
See Yao W. Chang, EM5:Oct 65:1:4497  
See H. L. Schreyer, EM4:Aug 66:1:4875
- MATALAS, N. C.**  
See Manuel A. Benson, HW1:Jan 65:55:4208
- MATHER, BRYANT**  
Dsc, SM6:Nov 66:254:4958, of "Rock Properties Interpreted from Sonic Velocity Logs", SM2:Mar 66:43:4715
- MATHEWSON, RALPH GEORGE**  
Memoir of, TR:131:905
- MATTHEWS, ALVA T.**  
See Paul Weidlinger, EM3:Jun 65:147:4375
- MATTHEWS, JOHN H.**  
Dsc, UP1:May 66:83:4806, of "Aesthetic Considerations in City Construction", UP1:Jul 65: 1:4389
- MATTIMOE, JOHN J.**  
Rock Trap Experience in Unlined Tunnels, with E. Roy Tinney and W. Weston Wolcott, PO3:Oct 64:29:4067  
Dsc: Howard E. Dann, PO1:May 65:115:4313; Frederic L. Lawton, PO1:May 65:118:4313  
TR:131:33
- MAUGHAN, W. DON**  
Dsc, with Theodore G. Roefs, HY2:Mar 66: 445:4708 of, "Use of Interrelated Records to Simulate Streamflow", HY4:Jul 65:13:4463
- MAVIS, FREDERIC T.**  
Dsc, HY5:Sept 66:261:4891, of "Flow in Culverts and Related Design Philosophies", HY2: Mar 66:19:4704  
Dsc, ST4:Aug 66:65:4871, of "Generalization of Hardy Cross Method", ST5:Oct 65:47:4502  
Dsc, ST5:Oct 66:383:4922, of "Loads on Vertical Pile Groups", ST2:Apr 66:103:4774  
Dsc, with Louis M. Laushey, HY5:Sept 66:288: 4891, of "Sediment Transportation Mechanics: Initiation of Motion", HY2:Mar 66:291:4738  
Dsc, HY6:Nov 66:273:4959, of "Similarity Laws for Localized Scour", HY3:May 66:13:4818
- MAY, ADOLF D., JR.**  
Dsc, HW2:Oct 66:115:4919, of "High Density Vehicular Flow-Density Relationships", HW2: Dec 65:37:4581
- MAYBEE, JOHN S.**  
Dynamics of Separable Multistory Buildings, with John E. Goldberg and Ervin D. Herness, EM2:Apr 66:153:4788
- MAYER, PAUL**  
See Olgierd C. Zienkiewicz, EM1:Feb 66:111: 4876
- MAYFIELD, GEORGE M.**  
Surveying and Mapping Aspects, Storm Tide Protection, SU1:Jan 68:1:4599

**MAZURKIEWICZ, ZBIGNIEW E.**

See Edward J. Krynicki, ST4:Aug 64:145:4010

**MAZZOLANI, FEDERICO M.**

See Michele Pagano, ST2:Apr 66:410:4759

**MCBEATH, BERNARD C.**

Sensitivity Analysis of Activated Sludge Economics, with Rolf Eliassen, SA2:Apr 66:147:4803

**MCCARTY, JAMES C.**

See Robert P. Shubinski, HY5:Sep 65:33:4470

**MCCLELLAND, BRAMLETTE**

Key Words and Abstracts for American Papers in the Proceedings of the 6th International Conference on Soil Mechanics and Foundations Engineering: Report by U.S. Natl. Committee for the Internatl. Soc. of Soil Mechanics and Foundations Engrg. ASCE, SM1:Jan 66:137:4635

**MCCONNELL, KENNETH G.**

Added Mass of a Sphere in a Bounded Viscous Fluid, with Donald F. Young, EM4:Aug 65:147:4448

Dsc: Frederick T. Mavis and Norbert L. Ackermann, EM6:Dec 65:193:4549; Ben-Chie Yen, EM2:Apr 66:296:4747  
Cio: EM6:Dec 66:232:4994

**MCCRAW, J. C.**

Alabama--Low Cement Content for Mass Concrete in TVA's Guntersville Lock, CE:Nov 65:70  
TR:131:634

**MCCULLOUGH, CHARLES A.**

See Thomas E. Bailey, SA5:Oct 66:23:4936

**MCDERMOTT, J. W.**

See Laing Barden, SM6:Nov 65:1:4535

**MCDONALD, CHARLES C.**

See G. H. Hughes, HY2:Mar 66:63:4714

**MCDONALD, JOHN F.**

Airports and the Supersonic Transport, AT1:Jan 66:107:4614

**MCDOWELL, R. C.**

Moving 165 Million Tons for World's Highest Compacted Fill--Oroville Dam, CE:Apr 66:26  
Dsc, R.M.T. Ryder, CE:Aug 66:73; Dsc & reply, Alfred R. Golze, CE:Aug 66:73

**MCENTYRE, JOHN G.**

Dsc, SU2:Jun 66:59:4832, of "Current Problems in Property Location", SU2:Sep 65:1:4465

**MC EWAN, JOHN S.**

Dsc, IR4:Dec 66:94:4995, of "Salinity Problems and Management in River Systems", IR1:Mar 66:77:4733

**McFALL, ROBERT L.**

Dsc, PP1:May 66:69:4804, of "A Critique of Engineering Education", PP2:Sep 65:7:4461  
Dsc, UP1:May 66:91:4806, of "Metropolitan Transportation Problem", UP1:Jul 65:7:4391

Dsc, IR3:Sep 66:75:4892, of "Role of Government in Water Resource Development", IR4:Dec 65:13:4558

Dsc, HY5:Sept 66:241:4891, of "Parametric Hydrology and Stochastic Hydrology", HY6:Nov 65:119:4539

Dsc, HY1:Jan 66:155:4596, of "Sequential Generation of Rainfall and Runoff Data", HY4:Jul 65:205:4416

Dsc, HY1:Jan 66:142:4596, of "Tacitly Maximized Small Watershed Flood Estimates", HY3:May 65:217:4339

**McGARRY, FREDERICK J.**

Education in Materials for Civil Engineers, CE:Jun 66:73  
See Charles L. Miller, PP2:Dec 66:7:5038

**McGARRY, MICHAEL G.**

Survival of S. Typhi in Sewage Oxidation Ponds, with Patrick H. Bouthillier, SA4:Aug 66:33:4878

**MCGAUHEY, P. H.**

Folklore in Water Quality Standards, CE:Jun 65:70  
TR:131:412

**McGUIRE, WILLIAM**

See Richard T. Douty, ST2:Apr 65:101:4298

**MCKENZIE, GORDON H.**

Dsc, ST3:Jun 66:259:4831, of "Design of Prestressed Concrete Buildings for Earthquake Resistance", ST5:Oct 65:1:4488

**MCKINLEY, DONALD**

Field Observations of Structures Damaged by Settlement, SM5:Sep 64:249:4054

Dsc: Gordon A. Fletcher, SM2:Mar 65:129:4257  
TR:131:316

**MCKINNEY, ROSS E.**

The Challenge of Solid-Waste Research, SA5:Oct 66:1:4924

Evaluation of Two Aerated Lagoons, with Henry H. Benjes, Jr., SA6:Dec 65:43:4589  
TR:131:842

Guide for the Civil Engineering Visitor on ECPD Accreditation Teams: Report of the Task Committee on Accreditation of the Committee on Engineering Education, PP1:May 66:1:4814  
Dsc: Franklin A. Williams, PP2:Dec 66:33:4992; Shu-t'ien Li, PP2:Dec 66:35:4992  
Ph.D. and P.E. in Civil Engineering Education, CE:Mar 65:48

Dsc: Asit K. Biswas, CE:July 65:76  
TR:131:219

Dsc, SA5:Oct 66:127:4920, of "Field Techniques For Evaluating Aerators", SA2:Apr 66:21:4757



- MCKINNEY, ROSS E.** Continued  
Dsc, SA4:Aug 66:80:4873, of "Hog Waste Disposal by Lagooning", SA6:Dec 65:27:4567
- McNALLY, WILLIAM D.**  
See, George Bugliarello, CE:Nov 66:69
- McNEARY, SAMUEL S.**  
See Irwin Remson, HY1:Jan 65:55:4196
- McNOWN, WILLIAM COLEMAN**  
Memoir of, TR:131:906
- McPHEE, WALTER T.**  
Water Supply for Saigon, CE:Sep 65:59  
TR:131:426  
  
Distribution System Equalizing Storage Hydraulics, with R. Prasad, HY6:Nov 66:151:4987
- McRAE, JOHN L.**  
Dsc, with W. E. Posey, AT1:Jan 66:163:4595, of "Airfield Pavement Evaluation Procedures", AT1:Apr 65:15:4299
- McSPARRAN, JOHN E.**  
See Chao-Lin Chiu, HY5:Sept 66:57:4905
- MECHLER, WALTER**  
Dsc, HY4:Jul 66:203:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123:4534
- MEGAREFS, GEORGE J.**  
Statcal Design of Axisymmetric Plates, EM6:Dec 66:79:5030
- MEISNER, MILTON B.**  
Dsc, AT2:Nov 66:108:4955, of "Capacity of Airport Systems in Metropolitan Areas", AT1:Jan 66:35:4609
- MELIN, JOHN W.**  
POST: Problem-Oriented Subroutine Translator, ST6:Dec 66:179:5009  
See Edward L. Murphee, Jr., ST6:Dec 66:167:5008
- MELLEMA, WARREN J.**  
See Howard E. Christian, WW3:Aug 66:45:4883
- MELLMAN, EDWARD**  
See James R. Carr, AT1:Jan 66:159:4595
- MERCER, ALBERT G.**  
Graphical Solution of Problems in Open-Channel Flow, CE:Aug 66:75
- MERKLE, JOHN G.**  
Dsc, HY1:Jan 66:132:4596, of "Tacitly Maximized Small Watershed Flood Estimates", HY3:May 65:217:4339
- MERMEL, T. W.**  
Supervision of Dams by State Authorities, CE:Aug 66:50
- METCALFE, A. HAROLD**  
Dsc, ST5:Oct 66:390:4922, of "Structural Behavior in a Gypsum Roof-Deck System", ST2:Apr 66:283:4789
- MEYER, WALTER L.**  
Extending CPM for Multiform Project Time-Cost Curves, with Louis R. Shaffer, CO1:May 65:45:4319  
TR:131:491
- MEYERHOF, GEORGE G.**  
Shallow Foundations, SM2:Mar 65:21:4271  
Dsc: Clyde N. Baker, Jr., SM6:Nov 65:119:4525  
Clo: SM3:May 66:92:4807  
TR:131:441
- MEYERS, V. JAMES**  
See John E. Goldberg, ST4:Aug 65:57:4438
- MHATRE, RAMKRISHNA P.**  
See Tekal Vishwanath, ST6:Dec 65:239:4583
- MIDDLEBROOKS, EDDIE JOE**  
See William A. Goldsmith, SA6:Dec 66:85:5045
- MIGNAVAL, P.**  
New Uses for Survey Instruments, CE:Jan 66:44
- MIKLOFSKY, HAAREN A.**  
Design of Guyed Towers by Interaction Diagrams, with Martin G. Abegg, ST1:Feb 66:245:4680
- MILBURY, WILLIAM F.**  
Compartmentalization of Aeration Tanks, with Wesley O. Pipes and Robert B. Grieves, SA3:Jun 65:45:4362  
Dsc: Ross E. McKinney, SA5:Oct 65:79:4492; Keith L. Murphy and Peter L. Timpany, SA1:Feb 66:317:4637  
Clo: SA5:Oct 66:103:4920  
TR:131:748
- MILLER, ALFRED LAWRENCE**  
Memoir of, TR:131:907
- MILLER, CHARLES L.**  
Guide to Development and Use of Electronic Computer Programs: Computers and Programming, with Steven J. Fenves, ST6:Dec 64:7:4152  
TR:131:3  
Inter-American Program: Past, Present, and Future, with Frederick J. McGarry, PP2:Dec 66:7:5038
- MILLER, EDMOND T.**  
Electronics in Surveying, CE:May 65:29  
TR:131:307  
See Robert V. Whitman, SM4:Jul 64:57:3966
- MILLER, H. T.**  
Professional Schools Granting Professional Degrees Needed, CE:July 66:61  
Dsc, Jared L. Black, CE:Nov 66:77

- MILLER, MELTON M., JR.**  
Dsc, EM5:Oct 66:142:4921, of "Study of Stability in the Hyperbolic Paraboloid", EM1:  
Feb 66:121:4677
- MILLER, ROBERT A.**  
See Donald R. Jackson, HY1:Jan 66:91:4596
- MILLER, ROBERT K.**  
See Bernard B. Gordon, SM3:May 66:1:4822
- MILLER, RONALD E.**  
Forecasting Air Traffic, AT2:Oct 65:1:4486  
Dsc: Frederick V. Hurst, Jr., AT2:Nov 66:  
106:4955
- MILLETT, J. H.**  
Computer-Aided Land Surveying, with J.W.  
King and H.J. Ridinger, CE:Oct 68:58
- MILLS, ROBERT E.**  
Dsc, CE:Nov 66:77 on two additional methods  
of improving rot resistance of exposed timber,  
CE:July 66:44
- MINOR, CARL E.**  
Asphalt Pavement Placed and Compacted in  
Thick Lifts, CE:May 66:64
- MINSHALL, NEAL E.**  
New Type Weir Construction for Small Water-  
sheds, with Ralph G. Spomer, IR1:Mar 65:11:  
4243  
TR:131:189  
Dsc, HY1:Jan 66:141:4596, of "Tacitly Maxi-  
mized Small Watershed Flood Estimates",  
HY3:May 65:217:4339
- MIOA, LING S.**  
See James A. Liggett, HY6:Nov 65:89:4538
- MIRANDA, CONSTANCIO**  
Finite Beams on Elastic Foundations, with  
Keshavan Nair, ST2:Apr 66:131:4778  
Inelastic Lateral-Torsional Buckling of Beam  
Columns, with Morris Ojalvo, EM6:Dec 65:21:  
4583  
Dsc: Theodore V. Galambos, EM3:Jun 66:  
110:4828
- MIRZA, JEHANGIR F.**  
Dsc, EM4:Aug 66:88:4874, of "Study of Sta-  
bility in the Hyperbolic Paraboloid", EM1:  
Feb 66:121:4677
- MISSIMER, HERTEL C.**  
Avoiding Utility Interference Underground,  
CE:Sep 65:36  
TR:131:557
- MITCHELL, JAMES K.**  
Permeability of Compacted Clay, with Don R.  
Hooper and Richard G. Campenella, SM4:Jul 65:  
41:4392
- Dsc: Dalim K. Majumdar and Gary G. La-  
France, SM2:Mar 66:171:4701; Konstantine  
P. Karpoff, SM2:Mar 66:173:4701  
TR:131:647  
Clo: SM5:Sept 66:129:4890
- MOBAREK, ISMAIL EL-SAYED**  
Directional Spectra of Laboratory Wind Waves,  
WW3:Aug 65:91:4450  
Dsc: Patrick Holmes, WW2:May 66:52:4808  
See Yuan Jen, PO2:Apr 66:1:4801
- MOGENSON, OLAF E.**  
Corr, CE:Mar 66:74, of List of Senior Members  
of Society, CE:Jan 66:77
- MOHR, HENRY A.**  
Dsc, SM3:May 66:99:4807, of "Role of the  
"Calculated Risk" in Earthwork and Foundation  
Engineering", SM4:Jul 65:1:4390  
Dsc, SM1:Jan 66:196:4594, of "Standard Pen-  
etration Test: Its Uses and Abuses", SM4:Jul 65:  
67:4395
- MOHRRAZ, BIJAN**  
See William C. Schnobrich, EM5:Oct 66:144:  
4921
- MOODY, WILLIAM T.**  
Nonlinear Differential Equation of Drain  
Spacing, IR2:Jun 66:1:4835
- MOORE, CHESTER A.**  
Civil Engineering Education That Is, PP2:  
Sept 65:49:4478  
Dsc: Asit K. Biswas, PP1:May 66:70:4804
- MOORE, JOE T.**  
North Carolina--Controlling Leakage from  
Cowans Ford Dam, CE:Jun 65:52  
TR:131:357
- MOORE, PETER J.**  
See Robert V. Whitman, SM4:Jul 64:57:3966
- MOORE, R. H.**  
A Research Program in Surveying and Mapping:  
Progress Report of the Research Committee of  
the Surveying and Mapping Division, ASCE,  
SU1:Jan 66:25:4629  
Dsc: Winfield H. Eldridge, SU2:Jun 66:67:  
4832
- MORALDI, GEORGE**  
Dsc, AT1:Jan 66:170:4595, of "Airfield Pav-  
ment Evaluation Procedures", AT1:Apr 65:15:  
4289
- MORGALL, JAMES R.**  
Computer Analysis of Overland Flow, with  
Ray K. Linsley, HY3:May 65:81:4325  
Dsc: James M. Wiggert, HY3:Sep 65:328:  
4484; Robert M. Ragan, HY3:Sep 65:328:4484;  
Michael K. Householder, HY3:Sep 65:331:4484;  
Richard N. Fenzl, HY8:Nov 65:224:4527;  
James A. Liggett and David A. Woolhiser,  
HY6:Nov 65:228:4527; Robert A. Grace, HY8:

**MORGALI, JAMES R. Continued**

Nov 65:233:4527; D. L. Brakensick, HY6:  
Nov 65:234:4527; George Terzidis and Theo-  
dore Strelkoff, HY6:Nov 65:236:4527; Donald  
R. Jackson and Robert A. Miller, HY1:Jan 66:  
91:4596; Terence E. Harbaugh, HY1:Jan 66:99:  
4596; Somnath Datta and Ven Te Chow, HY1:  
Jan 66:102:4596; John C. Schaake, HY2:  
Mar 66:363:4708  
Clo: HY5:Sept 66:198:4891  
TR:131:857

**MORGAN, CARL W.**

Needed Research Projects in Surface Water  
Hydrology, Task Committee on Development of  
Research Projects in Surface Water Hydrology,  
Hydraulics Division, ASCE, HY6:Nov 66:101:  
4982

**MORGAN, HUBERT L.**

Dec, SU2:Jun 66:56:4832, of "Current Prob-  
lems in Property Location", SU2:Sep 65:1:  
4465

**MORGAN, JAMES J.**

Dec, with Francis B. Birkner, SA6:Dec 66:  
137:4996, of "Precipitation of Iron in Aerated  
Ground Waters", SA1:Feb 66:199:4687

**MORGAN, RUSSELL**

Water Resources Planning for the Delaware  
Basin, HY5:Sept 65:65:4475  
Dsc: William Whipple, Jr., HY3:May 66:102:  
4805  
Clo: HY6:Nov 66:209:4959

**MORRIS, DAVID**

Interaction of Continuous Frames and Soil  
Media, ST5:Oct 66:13:4929

**MORRIS, M. D.**

Water for the World, with William E. Wood,  
James J. Geraghty, James Gould, Gordon R.  
Williams, Donald F. Othmer, Donald R. Lueder,  
Malcolm Pirnie, Jr., and Arthur C. Ford, SA1:  
Feb 65:1:4220  
Dsc: C. Scott Clark and F. Pierce Lina-  
weaver, Jr., SA3:Jun 65:135:4353  
Clo: By Donald F. Othmer, SA1:Feb 66:293:  
4637  
TR:131:802

**MORROW, CHARLES T.**

Diffraction of Ocean Waves About a Break-  
water, WW3:Aug 66:25:4882

**MORROW, COLE**

Planning a National Airport System to Serve the  
70's CE:Aug 65:62  
TR:131:512

**MORSE, EVERETT D.**

Dec, SU2:Jun 66:53:4832, of "Current Prob-  
lems in Property Location", SU2:Sep 65:1:4465

**MORTON, FRED I.**

Potential Evaporation and River Basin Evapo-  
ration, HY6:Nov 65:67:4534

Dsc: S. Solomon, HY5:Sept 66:219:4891;  
Jerald E. Christiansen, HY5:Sept 66:225:  
4891; T. J. Gillespie and K. M. King, HY5:  
Sept 66:230:4891

**MOSES, FRED**

Inelastic Frame Buckling, ST6:Dec 64:105:4169  
Dsc: Yu-Chin Yen, ST4:Aug 65:218:4432; A.  
A. Eremin, ST4:Aug 65:221:4432; C. Miranda,  
ST4:Aug 65:221:4432  
Clo: ST1:Feb 66:463:4638  
TR:131:153  
Optimum Structural Design Using Linear  
Programming, ST6:Dec 64:89:4163  
Dsc: Noel J. Gardner, ST2:Apr 65:205:4285;  
Henry Chao, ST3:Jun 65:292:4346; Janusz  
Kowalik, ST4:Aug 65:214:4432; C. Allin Cor-  
nell and Kenneth F. Reinschmidt, ST4:Aug 65:  
215:4432  
Clo: ST1:Feb 66:461:4638  
TR:131:171

**MOSURE, THOMAS F.**

See Thomas D. Y. Fok, ST1:Feb 66:1:4647

**MOWERY, WILLIAM A.**

Hazards of Hot-Weather Concreting, CE:Aug  
66:56

**MOYER, RALPH A.**

Comprehensive Urban Transportation Study  
Methods, HW2:Dec 65:57:4575  
Dsc: Alan M. Voorhees, HW2:Oct 66:111:  
4919; Henry D. Quinby, HW2:Oct 66:112:4919

**MOZINGO, RALPH R.**

Dec, ST4:Aug 66:100:4871, of "Analysis of  
Nonprismatic Continuous Structures", ST1:  
Feb 66:1:4647

**MUCKEL, DEAN C.**

Phreatophytes--Water Use and Potential  
Water Savings, IR4:Dec 66:27:5033

**MUELLER, JAMES A.**

Nominal Diameter of Floc Related to Oxygen  
Transfer, with Karl G. Voelkel and William C.  
Boyle, SA2:Apr 66:9:4756  
Dsc: Richard I. Dick, SA6:Dec 66:144:4996

**MUGA, BRUCE J.**

Dec, WW3:Aug 66:92:4872, of "Irregular  
Wave Forces on a Pile", WW4:Nov 65:1:4528

**MULDER, WILLIAM J., JR.**

A Consulting Firm Competes for June Grad-  
uates, CE:Aug 66:38

**MULLANEY, HOWARD J.**

Dec, WW4:Nov 66:51:4957, of "Practical Ton-  
nage Capacity of Canalized Waterways", WW1:  
Feb 66:33:4644

**MULLIN, J. V.**

Teaching Mechanics of Materials, CE:June  
66:67

**MULZET, ALFRED P.**

See August J. Durelli, EM3:Jun 65:65:4367

**MUNSE, WILLIAM H., JR.**

See Eugene Chesson, Jr., ST5:Oct 65:155:4512

See Alois J. Hartmann, EM2:Apr 66:37:4767

See Bruce G. Rogers, ST5:Oct 65:299:4519

**MURA, T.**

See Walid H. Rimawi, EM1:Feb 66:11:4636

**MURALIDHAR, D.**

See N. Rajaratnam, HY2:Mar 64:99:3828

**MURPHEE, EDWARD L., JR.**

Environment for Problem-Oriented Languages, with John W. Melin and Steven J. Fenves, ST6:Dec 66:167:5008

**MURPHY, GEORGE J.**

The BART Trans-Bay Tube, with Donald N. Tanner, CE:Dec 66:51

**MURPHY, KEITH L.**

Dsc, with Peter L. Timpany, SA1:Feb 66:317:4637, of "Compartmentalization of Aeration Tanks", SA3:Jun 65:45:4362

**MURPHY, LEE ORLO**

Memoir of, TR:131:908

**MURPHY, THOMAS E.**

See John P. Davis, WW1:Feb 66:17:4643

**MYERS, LLOYD E.**

See John A. Replegle, HY5:Sept 66:1:4895

See John A. Replegle, IR3:Sept 66:17:4888

**MYERS, VICTOR I.**

Remote Sensing for Estimating Soil Salinity, with David L. Carter and William J. Rippert, IR4:Dec 66:59:5040

**NACE, RAYMOND L.**

International Hydrological Decade Program Abroad, HY4:Jul 66:33:4864

**NAGARATNAM, SIVAMURUGAN**

Dsc, HY3:May 66:112:4805, of "The Hydraulic Jump as a Wall Jet", HY5:Sep 65:107:4482

**NAIR, KESHAVAN**

See Constancio Miranda, ST2:Apr 66:131:4778

**NAKIVIL, RICHARD MERTON**

Memoir of, TR:131:909

**NARAIN, JAGDISH**

Design of a Differential Pore Pressure Manometer and Its Time Lag Characteristics, with Bhawani Singh, SM5:Sept 66:93:4909

Dsc, with Bhawani Singh, SM4:Jul 66:101:4860, of "Shear Stress Pore Pressure in Triaxial Testing", SM6:Nov 65:25:4540

Dsc, with T. S. R. Ayyar, SM2:Mar 66:156:4701, of "Some Swelling Characteristics of Compacted Clays", SM3:May 65:1:4316

**NARASIMHAN, SAMPATHIENGAR**

Dsc, HY6:Nov 66:234:4959, of "Diffusion of Sediment in a Submerged Jet", HY2:Mar 66:153:4726

**NAUDASCHER, EDUARD**

Dsc, EM4:Aug 66:80:4874, of "Flow-Induced Structural Vibrations", EM6:Dec 65:39:4564

**NATH, B.**

See O. C. Zienkiewicz, HY5:Sept 64:69:4042

**NEALE, LAWRENCE C.**

Flow Characteristics of PVC Sewer Pipe, with Robert E. Price, SA3:Jun 64:109:3955

Dsc: Leland L. Sphar, SA5:Oct 64:69:4097;

John J. Cassidy, SA6:Dec 64:133:4171; M. H.

Diskin, SA6:Dec 64:134:4171; Kuan M. Yao,

SA6:Dec 64:137:4171

Clo: SA4:Aug 65:52:4421

TR:131:840

**NEBIKER, JOHN H.**

Dsc, with Donald D. Adrian, SA6:Dec 66:148:4996, of "Drainage Characteristics of Digested Sludge", SA2:Apr 66:67:4762

**NECE, RONALD E.**

Single-Port Suction Manifolds, with Peter P. Goldstern and Jared L. Black, HY1:Jan 66:43:4620

Dsc, SA5:Oct 66:112:4920 of "Predicting Temperatures in Rivers and Reservoirs", SA1:Feb 66:115:4675

**NEILL, CHARLES R.**

Dsc, HY5:Sept 66:293:4891, of "Abstracted Bibliography on Erosion of Cohesive Materials", HY2:Mar 66:243:4746

Dsc, HY5:Sept 66:268:4891, of "Flow in Culverts and Related Design Philosophies", HY2:Mar 66:19:4704

Dsc, HY5:Sept 66:276:4891, of "Inland Delta Building Activity on Kosi River", HY2:Mar 66:111:4722

Dsc, with N. Van Der Giessen, HY5:Sept 66:280:4891, of "Sediment Transportation Mechanics: Initiation of Motion", HY2:Mar 66:291:4738

**NELSON, JOHN D.**

Dsc, with Richard A. Wetzel, CE:Mar 66:74 on representation of ASCE members in proceedings, CE:Jan 66:73

See Eben Vey, SM1:Jan 65:25:4199

**NELSON, JOHN O.**

See James A. Harder, HY4:Jul 66:1:4862

**NELSON, MARK F.**

See William Weaver, Jr., ST6:Dec 66:385:5019

**NEOS, CHARLES**

See Man M. Varma, SA1:Feb 66:313:4637

- NEUGOLD, HARRY, JR.**  
Understanding and Controlling Corrosion,  
CE:Mar 65:57  
Dsc: R.E. Bald, CE:May 65:74  
TR:131:239
- NEUKIRCHNER, R. J.**  
See T. H. Wu, SM6:Nov 66:229:4991
- NEUMANN, DONALD L.**  
Mathematical Method for Blending Aggregates,  
CO2:Sept 64:1:4026  
Dsc: Carl Berwanger, CO1:May 65:192:4309  
Clo: CO1:Jan 66:77:4597  
TR:131:64
- NEUZIL, DENNIS R.**  
Dsc, CE:May 66:76, on the cover of the March  
issue
- NEWMAN, MALCOLM**  
See Martin A. Goldberg, EM3:Jun 65:13:4356
- NEWNAM, FRANK H.**  
See H. O. Fischer, CE:Sept 65:32
- NEWMAN, DONALD G.**  
Designing Isolated Footings against Over-  
turning, CE:Dec 65:70  
Dsc: Herman Soifer, CE:Apr 66:65  
Corr: CE:Feb 66:74  
TR:131:672
- NEYMATULLAH**  
See Lloyd A. Dove, CE:Oct 66:41
- NICHOLLS, ROY A.**  
Dsc, SM5:Sept 66:145:4890, of "Quality Control  
of Compacted Earthwork", SM1:Jan 66:93:4623
- NICKELL, F. A.**  
Dsc, SM1:Jan 66:187:4594, of "Role of the  
"Calculated Risk" in Earthwork and Foundation  
Engineering", SM4:Jul 65:1:4390
- NIELSEN, JOHN P.**  
Modulus of Deformation of Pavement Bases,  
AT1:Jan 66:95:4613  
Dsc: Paul F. Keim, AT2:Nov 66:110:4955;  
J. I. Fernandez Zuazo, AT2:Nov 66:111:4955
- NIELSON, N. NORBY**  
Vibration Tests of a Nine-Story Steel Frame  
Building, EM1:Feb 66:81:4660  
Dsc: Joseph Vellozzi, EM5:Oct 66:140:4921
- NIMMO, WILLIAM H. R.**  
HY6:Nov 66:215:4959, of "Use of Baffles in  
Open Channel Expansions", HY2:Mar 66:1:4703
- NOEL, JIM S.**  
See Glen J. Hopkins, CE:Sep 65:39
- NOORANY, I.**  
In-Situ Strength Characteristics of Soft Clays,  
with H. Bolton Seed, SM2:Mar 65:48:4274  
Dsc: John H. Schmertmann, SM6:Nov 65:123:  
4525  
Clo: SM3:May 66:93:4807  
TR:131:323
- NORDBY, GENE M.**  
Where Is Engineering Education Today? --from  
the Educator's Viewpoint, CE:Feb 65:56  
Dsc: M. D. Morris, CE:Apr 65:80  
TR:131:129
- NORDIN, CARL F., JR.**  
Spectral Analysis of Sand Waves, with James  
H. Algert, HY5:Sept 66:95:4910
- NORTHROP, WILLIAM L.**  
Dsc, HY6:Nov 66:229:4959, of "Processing  
Streamflow Data," by the Committee on Surface  
Water Hydrology, ASCE, HY2:Mar 66:145:4725
- NOVEMBER, WILLIAM E.**  
New York's Tallest Concrete-Frame Apart-  
ment Building--Design and Construction, with  
Robert Rosenwasser, CE:Sept 66:66  
Corr, B. R. Wellek, CE:Nov 66:78
- NUNN, HENRY EDWIN**  
Memoir of, TR:131:910
- NYMAN, FRANK**  
Alaska--Plastic Insulation vs. Deep Trenching  
for Seldovia Water Mains, CE:Mar 65:40  
TR:131:207
- OBERMAN, LEONARD S.**  
Functional Planning of Bulk Material Ports,  
WW2:May 65:17:4310  
TR:131:88
- OBRCIAN, VLADIMIR**  
See Leo H. Just, CO2:Mar 66:71:4743
- O'CONNELL, RICHARD L.**  
Effect of Benthic Algae on Stream Dissolved  
Oxygen, with Nelson A. Thomas, SA3:Jun 65:  
1:4345  
Dsc: Ross E. McKinney, SA5:Oct 65:77:4492;  
James M. Symons, SA1:Feb 66:301:4637;  
C. H. J. Hull, SA1:Feb 66:306:4637  
Clo: SA5:Oct 66:95:4920  
Dsc, SA1:Feb 66:331:4637, of "Field Estimates  
of Oxygen Balance Parameters", SA5:Oct 65:1:  
4485
- O'CONNOR, DONALD J.**  
See Rex A. Elder, HY6:Nov 66:61:4975
- O'CONNOR, E. J.**  
Urethane Foam for Pressure-Relief Joints at  
Bridges, CE:Oct 66:37
- O'CONNOR, JOHN T.**  
See Mriganka M. Ghosh, SA1:Feb 66:199:4687
- ODLEY, EZRA G.**  
Analysis of High Guyed Towers, ST1:Feb 66:  
169:4671  
Dsc: Robert A. Williamson and Martin N.  
Margolin, ST5:Oct 66:354:4922

**O'DONNELL, TERENCE**

See David R. Dawdy, HY4:Jul 65:123:4410

**OERTEL, GERHARD**

Slow Viscous Flow of an Incompressible Suspension, EM5:Oct 65:145:4517

Corr: EM4:Aug 66:76:4874

TR:131:494

**OHANIAN, NORIK**

See B.E. Gatewood, ST2:Apr 65:27:4291

**OJALVO, MORRIS**

See Constancio Miranda, EM6:Dec 65:21:4563

See Jorge Y. Tamayo, ST1:Feb 65:141:4224

See Arthur C. Taylor, Jr., ST2:Apr 66:115:4776

**OLESON, GRANVILLE, II**

Memoir of, TR:131:911

**OLIGER, GEORGE R.**

Dsc, CE:Mar 66:86, of "A Simple Method for Determining Water Surface Profiles," CE:Oct 65:85

**OLKO, STEPHEN M.**

Marinas and Yacht Clubs--Planning and Financing, CE:Jun 65:58

TR:131:353

**O'LOUGHLIN, E. M.**

Dsc, HY2:Mar 66:393:4708, of "Critical Analysis of Open-Channel Resistance", HY4:Jul 65:1:4387

**O'NEILL, IAN C.**

Dsc, with Harald R. Graze, HY2:Mar 66:382:4708, of "Rigid Water Column Theory for Uniform Gate Closure", HY4:Jul 65:27:4386

**OLSON, ROY E.**

Pore Water Pressures in Unsaturated Soils, with Leonard J. Langfelder, SM4:Jul 65:127:4409

Corr: SM3:May 66:106:4807

TR:131:365

**ONSTOTT, JOHN T.**

See George Buglairello, CE:Nov 66:69

**ORDON, CHESTER J.**

Manifolds, Rotating and Stationary, SA1:Feb 66:269:4696

Dsc: Joseph B. Franzini, SA5:Oct 66:126:4920

**ORLOB, GEORGE T.**

See Rex A. Elder, HY6:Nov 66:61:4975

**ORR, CHARLES I.**

Florida--Liaison Insures Quality Control for Vehicle Assembly Building at Cape Kennedy, CE:Oct 65:56

TR:131:773

**O'SULLIVAN, JAMES F.**

Boiler Column Straightening Under Load Conditions, with Dallas I. Downs, PO2:Apr 66:115:4751

**OSWALD, WILLIAM J.**

Closed Ecological Systems, with Clarence G. Golueke and D.O. Horning, SA4:Aug 65:23:4445

TR:131:868

**OTHMER, DONALD F.**

See M.D. Morris, SA1:Feb 65:1:4220

**OTTO, WILLIAM C.**

See George B. Wallace, SM5:Sep 64:197:4047

**OWNBEY, C. R.**

For the Civil Engineer--A Leadership Challenge, CE:Nov 65:75

**OZELL, ALAN M.**

Dsc, ST5:Oct 66:371:4922, of "Tests of Partially Prestressed Concrete Girders", ST1:Feb 66:327:4685

**PAASWELL, ROBERT E.**

Dsc, SM2:Mar 66:197:4701, of "Consolidation of Normally Consolidated Clay", SM5:Sept 65:15:4481

**PAGAN, ALFRED R.**

County Rain-Gage Network Useful in Design, with Ronald Rothenberg, CE:Apr 65:68

TR:131:269

A Training Program for Public Works Inspectors, CE:May 66:52

**PAGANO, MICHELE**

Dsc, with Frederico M. Mazzolani, ST2:Apr 66:410:4759, of "Analysis of Deflections in Elastic-Plastic Frames", ST3:Jun 65:197:4381

**PALMER, ALFRED H.**

Steel Fabrication Drawings by Computer, with Herbert T. Blomquist, CE:Feb 65:50

Dsc: Henry G. Hurd, CE:May 65:74; Author's reply, May 65:74

TR:131:116

**PALMER, PETER M.**

See David Anderson, HY4:Jul 66:198:4859

**PAMA, RICARDO P.**

See Anthony R. Cusens, ST5:Oct 65:255:4518

**PAN, HUO-HSI**

Vibration of a Viscoelastic Timoshenko Beam, EM2:Apr 66:213:4794

Dsc: Walter D. Pilkey, EM6:Dec 66:254:4994

**PANDULLO, FRANCIS**

Ethics and Municipal Engineers in Private Practice, PP2:Sep 65:1:4455

Dsc: Frank E. Alderman, PP1:May 66:67:4804

**PAPP, REMY P.**

Putting a Movable Bridge Span Back in Swing,  
CE:July 66:36

**PARCHER, JAMES V.**

Jagdish Narain and T. S. R. Ayyar, SM2:

Mar 66:156:4701

Clo: SM4:Jul 66:73:4860

TR:131:641

Some Swelling Characteristics of Compacted  
Slays, with Ping-Chuan Lin, SM3:May 65:1:4316

Dsc: O. Clarke Mann, SM6:Nov 65:130:4525;

Clyde N. Laughter, SM1:Jan 66:176:4594;

F. L. D. Wooltorton, SM1:Jan 66:177:4594;

**PARISET, ERNEST**

Formation of Ice Covers and Ice Jams in  
Rivers with René Hausser and André Gagnon,  
HY6:Nov 66:1:4965

High Lift Locks: Some Hydraulic Problems  
and Solutions, with André Gagnon, WW4:Nov 64:  
55:4131

Dsc: Paul Wisner and Teodor Stoicescu,

WW3:Aug 65:151:4420

Clo: WW1:Feb 66:131:4639

TR:131:131

**PARK, ROLLA EDWARD**

Airport Accessibility and Detroit Passengers,  
AT2:Nov 66:65:4974

**PARKER, FRANK L.**

See Rex A. Elder, HY6:Nov 66:61:4975

**PARKER, LEWIS E.**

Highway Plans from Photogrammetrically-  
Compiled Maps, SU1:Apr 64:31:3859

Dsc: Daniel Kennedy, SU1:Apr 65:63:4280

TR:131:364

**PARKHURST, JOHN D.**

Progress in Waste Water Re-Use in Southern  
California, IR1:Mar 65:79:4253

Dsc: Max Bookman, IR4:Dec 65:95:4550;

Asit K. Biswas, IR4:Dec 65:97:4550

Clo: IR2:Jun 66:91:4829

TR:131:569

**PARKINS, ALAN K.**

Rockfill Structures Subject to Water Flow,  
with David H. Trollope and John D. Lawson,  
SM6:Nov 66:135:4973

**PARKMAN, MILTON E.**

Dsc, with Austin B. Smith, WW3:Aug 66:98:  
4872, of "Control of Obnoxious Aquatic Plants  
in the Southeast", WW4:Nov 65:31:4536

**PARNES, RAYMOND**

See Morton B. Friedman, EM3:Jun 65:189:4377

**PARSONS, D.A.**

Cellular Concrete Block Revetment, with  
R. P. Apmann, CE:Feb 65:66

TR:131:128

**PARSONS, JAMES D.**

Piling Difficulties in the New York Area, SM1:  
Jan 66:43:4617

Dsc: Andrew A. Reti, SM4:Jul 66:112:4860;

Jacob Feld, SM4:Jul 66:113:4860

Dsc, SM3:May 66:103:4807, of "Standard  
Penetration Test: Its Uses and Abuses", SM4:  
Jul 65:67:4395

**PARTHENIADES, EMMANUEL**

Erosion and Deposition of Cohesive Soils, HY1:  
Jan 65:105:4204

Dsc: A. G. Altschaeffl, HY3:Sept 65:301:4464;

Bent A. Christensen, HY5:Sept 65:301:4464

Clo: HY3:May 66:79:4805

TR:131:319

**PATTERSON, CALVIN C.**

Dispersion Measurement in Open Channels,  
with Earnest F. Gloyna, SA3:Jun 65:17:4347  
TR:131:46

**PATTON, DENVER S., JR.**

Hydraulic Testing of the 24-in. Leidy Line,  
PL2:Nov 64:15:4132

Dsc: Arthur B. Wilder, PL1:Jul 65:82:4397

TR:131:656

**PAULSON, WAYNE L.**

See, H. S. Smith, CE:May 66:56

**PAYNE, HOWARD L.**

Ultimate Strength Design for Highway Bridges,  
with Lamar H. Caldwell, ST5:Oct 65:43:4489

Dsc: Raymond Archibald, ST2:Apr 66:432:

4759

Clo: ST5:Oct 66:321:4922

**PAYNTER, HENRY M., JR.**

Dsc, with Joseph C. Free, HY2:Mar 66:379:  
4708, of "Water-Hammer Charts for Centrifugal  
Pump Systems", HY3:May 65:247:4343

**PECK, RALPH B.**

Pile and Pier Foundations, SM2:Mar 65:33:4273  
Dsc: Michael Praszker, SM5:Sep 65:124:4457;

R. F. Bartholomew and N. E. Simons, SM6:

Nov 65:122:4525

There will be no closure: SM3:May 66:4807

TR:131:224

**PEDRO, J. OLIVEIRA**

See J. Laginha Serafim, ST2:Apr 65:15:4284

**PENZIEN, JOSEPH**

See Egor P. Popov, EM5:Oct 64:119:4085  
See Chi Chao Tung, AT1:Jan 66:1:4603

**PEOPLES, HOWARD**

See, Robert A. Dudley, CE:Dec 66:48

**PEROLD, R. P.**

Dsc, HY1:Jan 66:130:4596, of "Tacitly Max-  
imized Small Watershed Flood Estimates",  
HY3:May 65:217:4339



**PERRI, JOSEPH G.**

Dsc, ST4:Aug 66:64:4871, of "Generalization of Hardy Cross Method", ST5:Oct 65:57:4502

**PERRONE, NICHOLAS**

Calculating Deflections of a Partially Collapsed Frame, with Michael C. Soteriades, EMI:Feb 65:1:4214

Dsc: German Gurfinkel, EM4:Aug 65:210:4433; Vitelmo V. Bertero, EM5:Oct 65:218:4495

Clo: EM3:Jun 66:98:4628

TR:131:383

Dsc, EM6:Dec 66:237:4994, of "Nonregular Progression in Strain Hardening Shells", EMI:Feb 66:59:4658

**PERROTT, WILLIAM E.**

British Practice for Grouting Granular Soils, SM6:Nov 65:57:4542

Dsc: Reuben H. Karol, SM4:Jul 66:106:4860;

Leland F. Grant, SM4:Jul 66:107:4860

**PETERSEN, MARGARET S.**

Laboratory Contributions to Channel Stabilization, WW1:Feb 66:37:4673

Dsc: Herbert D. Vogel, WW3:Aug 66:104:4872; Walter C. Carey, WW4:Nov 66:57:4957; Odgen Beeman, WW4:Nov 66:57:4957

**PETERSON, GEORGE L.**

Dsc, UP1:May 66:84:4806, of "Aesthetic Considerations in City Construction", UP1:Jul 65:1:4389

**PETERSON, JOHN**

Wood Beams Prestressed with Bonded Tension Elements, ST1:Feb 65:103:4218

Dsc: William R. Ganser, Jr., ST4:Aug 65:251:4432; James H. Carr, Jr., ST4:Aug 65:252:4432; K. P. Milbradt, ST5:Oct 65:360:4498

Clo: ST2:Apr 66:395:4759

TR:131:379

**PETERSON, RONALD L.**

Free-Living Nematode Removal by Rapid Sand Filters, with R. S. Engelbrecht and John H. Austin, SA1:Feb 66:229:4693

**PETRIKAT, K.**

See T. E. Unny, HY2:Mar 66:432:4708

**PETROFSKY, ALFRED M.**

Contractor's View on Unlined Tunnels, PO3:Oct 64:91:4086

Dsc: Frederic L. Lawton, PO1:May 65:128:4313; John W. Morris, PO1:May 65:129:4313

Clo: PO1:Jan 66:131:4598

TR:131:43

**PETULLA, LOUIS W.**

The Engineer in Charge of Construction, CE:Oct 66:48

**PEURIFOY, R. L.**

Electric Controls for Laying Smooth Pavements, CE:Sept 65:56

TR:131:757

Lateral Pressure of Concrete on Formwork, CE:Dec 65:60

Dsc and addendum: A. G. G. Ritchie, CE:Mar 66:86; Peter D. Courtois, CE:Apr 66:64

TR:131:679

**PFANG, EDWARD O.**

Behavior of Reinforced Concrete Columns with Sidesway, ST3:Jun 66:225:4853

Behavior of Restrained Reinforced Concrete Columns, with Chester P. Sless, ST5:Oct 64:113:4111

Dsc: James G. McGregor, ST3:Jun 65:281:4346

Clo: ST1:Feb 66:458:4638

TR:131:341

Predicting Structural Behavior Analytically, with Chester P. Sless, ST5:Oct 64:99:4110

Dsc: Al P. Kabaila, ST3:Jun 65:280:4346

Clo: ST1:Feb 66:457:4638

TR:131:289

**PHANSALKAR, S. D.**

Dsc, HY2:Mar 66:415:4708, of "Withdrawal from Two-Layer Stratified Flows", HY4:Jul 65:43:4398

**PHELAN, JOHN T.**

See Tyler H. Quackenbush, IR2:Jun 65:11:4350

**PIERSON, WILLARD J., JR.**

Irregular Wave Forces on a Pile, with Patrick Holmes, WW4:Nov 65:1:4528

Dsc: R. O. Reid, WW2:May 66:55:4808; Bruce J. Muga, WW3:Aug 66:92:4872; Robert G. Dean, WW4:Nov 66:37:4957

**PILGRIM, DAVID H.**

Storm Loss Rates for Regions with Limited Data, HY2:Mar 66:193:4728

**PILKEY, WALTER D.**

Dsc, EM6:Dec 66:254:4994, of "Vibration of a Viscoelastic Timoshenko Beam", EM2:Apr 66:213:4794

**PILLSBURY, ARTHUR F.**

Salinity Problems and Management in River Systems, with Harry F. Blaney, IR1:Mar 66:77:4733

Dsc: Jerald E. Christiansen and James P. Thorne, IR3:Sept 66:84:4892; Raymond A. Hill, IR3:Sept 66:86:4892; Ronald C. Reeve, IR4:Dec 66:92:4995; Paul F. Keim, IR4:Dec 66:92:4995; John S. McEwan, IR4:Dec 66:94:4995; John H. Bliss, IR4:Dec 66:96:4995; Leon Bernstein and C. A. Bower, IR4:Dec 66:97:4995

Tile Drainage Performance, Coachella Valley, California, with J. R. Spencer, William R. Johnston, and L. O. Weeks, IR2:Jun 65:1:4344

TR:131:9

**PINCUS, GEORGE**

Behavior of Diaphragm-Braced Columns and Beams, with Gordon P. Fisher, ST2:Apr 66:323:4792

**PINELLO, NICK**

Colorado--70-ft Underpass of Corrugated Steel  
Pipe for Broadmoor Hotel, Colorado Springs,  
CE:Nov 65:84  
TR:131:638

**PINJARKAR, S. G.**

See Kuang-Han Chu, ST2:Apr 66:297:4791

**PINKERTON, IVOR L.**

Tumut 2 Underground Power Plant, with Eric  
J. Gibson, PO1:Mar 64:33:3835  
Dsc: F. L. Lawton, PO2:Jul 64:31:3977;  
William H. Wolf, PO3:Oct 64:135:4063; H. H.  
Thomas and H. C. V. Woollard, PO3:Oct 64:  
136:4063; Fred E. Cornwell, PO3:Oct 64:144:  
4063; Bruce R. Lavery, PO3:Oct 64:145:4063;  
M. St. Vasilescu, PO1:May 65:106:4313  
Clo: PO1:Jan 66:118:4598  
TR:131:23

**PIPES, WESLEY O.**

See William F. Milbury, SA3:Jun 65:45:4362

**PIRNIE, MALCOLM, JR.**

See M. D. Morris, SA1:Feb 65:1:4220

**PITCHER, FRANKLIN**

1965 ASCE Salary Survey: Report of the Com-  
mittee on Employment Conditions of the Depart-  
ment of Conditions of Practice, PP1:May 66:33:  
4820

**PITMAN, F. S.**

See Campbell Massey, EM2:Apr 66:101:4779

**PITTELKO, HARVEY P.**

Vertical Forces in the Alaska Earthquake of  
March 1964, CE:Jan 65:56  
Dsc: Harold C. Smith, CE:Mar 65:62  
TR:131:49

**PLANTEMA, IR G.**

The Netherlands--Rotterdam's Rapid Transit  
Tunnel, CE:Aug 65:34  
TR:131:520

**PLOCK, RAYMOND S.**

Developing A Social Consciousness (The  
Younger Viewpoint) CE:Sept 66:94

**PLUMLEE, CARL H.**

Optimum Size Seaport, WW3:Aug 66:1:4880

**POIROT, JAMES W.**

Alaska--Utilities for a Relocated Town in  
Valdez, CE:Mar 65:50  
TR:131:173

**POLLARD, WILLIAM S., JR.**

Operations Research Approach to the Reciprocal  
Impact of Transportation and Land Use, UP1:May  
66:21:4812

**POPOV, EGOR P.**

Finite Element Solution for Axisymmetrical  
Shells, with Joseph Penzien and Zung-An Lu,  
EM5:Oct 64:119:4085  
Dsc: Royston K. Penny, EM2:Apr 65:91:4286;  
Sing-chih Tang, EM2:Apr 65:92:4286; Robert  
Lipp, EM3:Jun 65:262:4348; Stanley Klein,  
EM3:Jun 65:264:4348  
Clo: EM6:Dec 65:178:4549  
TR:131:114  
Shakedown Analyses of Some Typical One-  
story Bents, with Eric Becker, ST5:Oct 64:1:  
4069  
Dsc: A. A. Eremin, ST3:Jun 65:278:4346  
Clo: ST2:Apr 66:390:4759  
TR:131:186  
See Vitelmo V. Bertero, ST1:Feb 65:1:4217

**POPPY, D. L.**

Offshore Tanker Terminal in Greece, CE:Mar  
66:59

**PORCHER, ARTHUR G.**

Siting of Manned Lunar Launch Facilities,  
AT1:Jan 66:145:4630

**PORGES, RALPH**

Reassessing an Old Problem--Acid Mine Drain-  
age, with Lowell A. Van Den Berg and Dwight  
Ballinger, SA1:Feb 66:69:4654  
Dsc: C. Scott Clark, SA5:Oct 66:111:4920

**POSEY, CHESLEY J.**

Are Flood-Plain Regulations Sound?,  
CE:Jun 65:68  
TR:131:417  
Dsc, HY2:Mar 66:418:4708, of "Environmental  
Effects of Flood Plain Regulations", HY4:Jul  
65:59:4402  
Dsc, HY2:Mar 66:413:4708, of "Spurious  
Correlation in Hydraulics and Hydrology",  
HY4:Jul 65:35:4393  
Dsc, CE:Feb 66:74, of "Steel Offshore Towers  
Replace Lightships", CE:Nov 65:72  
Author's reply, CE:Feb 66:74

**POSEY, W. E.**

See John L. McRae, AT1:Jan 66:163:4595

**POSKITT, TREVOR J.**

Structural Analysis of Suspension Bridges,  
ST1:Feb 66:49:4664  
Dsc: Alan Jennings, ST5:Oct 66:337:4922;  
Derek M. Brotton and David Johnson, ST5:Oct  
66:339:4922

**POUCHER, MELLOR P.**

Dsc, ST5:Oct 66:334:4922, of "Analysis of  
Nonprismatic Continuous Structures", ST1:Feb  
66:1:4647

**POWELL, GRAHAM H.**

Compact Solution of Doubly-Curved Shell  
Equation, EM5:Oct 66:1:4927  
Comparison of Simplified Theories for Folded  
Plates, ST6:Dec 65:1:4552  
Dsc: Neil Jackson, ST3:Jun 66:277:4831;  
Gajanan M. Sabnis, ST4:Aug 66:87:4871;  
Ibrahim A. Gaafar, ST5:Oct 66:324:4922

**POWELL, GRAHAM H.** Continued  
Interaction of Edge Beams with Doubly Curved  
Shells, ST3:Jun 66:57:4841

**POWELL, HARRY R.**  
Dsc, CE:Aug 66:74, on need for beautiful high-  
way bridges designed by engineers  
Dsc, Homer M. Hadley, CE:Nov 66:77

**POWELL, RALPH W.**  
Dsc, HY1:Jan 66:120:4596, of "Capacity Tests  
in Large Concrete-Lined Canals", HY3:May 65:  
189:4337

**POWELL, SAMUEL B.**  
See Harold A. Kidby, WW4:Nov 64:77:4134

**PRAEGER, RICHARD Q.**  
See W.O. Hiltabidle, Jr., CO1:May 65:141:4340

**PRASAD, R.**  
See M.B. McPherson, HY6:Nov 66:151:4987

**PRICE, JAMES T.**  
Flow-Induced Vibrations--Experience of TVA  
with Hydraulic and Other Structures, CE:Apr 65:  
61  
TR:131:245

**PRICE, ROBERT E.**  
See Lawrence C. Neale, SA3:Jun 64:109:3955

**PRILUCK, HERBERT M.**  
Dsc, CO1:Jan 66:100:4597, of "CPM--As Com-  
plete Project Management", CO1:May 65:99:  
4324

**PRITCHETT, HAROLD D.**  
See Charles E. Behlke, HY5:Sept 66:253:4891

**PROCTOR, CHARLES M.**  
Life Support Requirements for Space Missions,  
SA2:Apr 65:1:4288  
Corr: SA1:Feb 66:296:4637  
TR:131:155

**PRUCHA, ARNOLD A.**  
See Herbert B. Foster, Jr., SA6:Dec 65:1:4556

**PRUGH, BYRON J.**  
Grouting Manmade Islands--Chesapeake Bay  
Bridge, CO1:Jan 66:37:4621  
Dsc, CO3:Sept 66:88:4889, of "Verrazano-  
Narrows Bridge: Construction of Tower Founda-  
tions and Anchorages", CO2:Mar 66:95:4744

**PRUS-CHACINSKI, THADDEUS M.**  
Dsc, HY2:Mar 66:389:4708, of "Critical Analy-  
sis of Open-Channel Resistance", HY4:Jul 65:1:  
4387

**PRYSOCK, ROGEL H.**  
See Travis W. Smith, SM5:Sept 66:142:4890

**PSCHUNDER, RALPH J.**  
Tilt and Deflections of Tapered Polygonal  
Towers, ST3:Jun 65:151:4373

Clo: ST2:Apr 66:409:4759  
TR:131:143

**PULLING, RONALD W.**  
Financing Future Intercity Transportation  
Systems, HW1:Jan 65:1:4187  
Dsc: E. Grosvenor Plowman, HW2:Dec 65:  
137:4548; Henry F. Ball, HW2:Dec 65:138:4548  
Clo: HW2:Oct 66:101:4919  
TR:131:817  
Intercity Travel Characteristics, AT1:Apr 65:  
1:4296  
Dsc: James R. Carr and Edward Mellman,  
AT1:Jan 66:159:4595; H.K. Friedland, AT1:  
Jan 66:161:4595  
Clo: AT2:Nov 66:101:4955

**PYTOWSKI, WITOLD**  
A Children's Hospital for Poland with Research  
and Teaching Facilities, CE:Nov 66:64

**QUACKENBUSH, TYLER H.**  
Irrigation Water Requirements of Lawns, with  
John T. Phelan, IR2:Jun 65:11:4350  
Dsc: Marvin E. Jensen, IR1:Mar 66:95:4700  
Clo: IR3:Sept 66:65:4892  
TR:131:849

**QUICK, MICHAEL C.**  
River Flood Flows, Forecasts and Proba-  
bilities, HY3:May 65:1:4312  
Dsc: Donald R. Jackson, HY1:Jan 66:87:4596  
Clo: HY4:Jul 66:133:4859  
TR:131:546

**QUINBY, HENRY D.**  
Planning Public Mass Transportation, HW1:  
Jan 65:15:4190  
Dsc: Carlton C. Robinson, HW2:Dec 65:139:  
4548; Rex M. Whitton, HW2:Dec 65:141:4548  
Clo: HW2:Oct 66:102:4919  
TR:131:827  
Dsc, HW2:Oct 66:112:4919, of "Comprehensive  
Urban Transportation Study Methods", HW2:Dec  
65:57:4575

**QUIRIN, EDWARD J.**  
The American Consulting Engineer Abroad,  
CE:Mar 65:45; Apr 65:54; May 65:60  
TR:131:161

**QUIRKO, LINO**  
Generalization of Hardy Cross Method, ST5:  
Oct 65:57:4502  
Corr: ST1:Feb 66:504:4638  
Dsc: Jewell M. Garrelta, ST2:Apr 66:433:  
4759; Allen E. Crenshaw, ST4:Aug 66:59:4871;  
Joseph G. Perri, ST4:Aug 66:64:4871; Fred-  
erick T. Mavis, ST4:Aug 66:65:4871; James  
W. Gillespie, ST4:Aug 66:69:4871

**QUON, JIMMIE E.**  
Drainage Characteristics of Digested Sludge,  
with Glenn M. Johnson, SA2:Apr 66:67:4762  
Dsc: John H. Nebiker and Donald D. Adrian,  
SA6:Dec 66:148:4996

**QUON, JIMMIE E. Continued**

Intensity of Radiation and Rate Sludge Drying,  
with Thomas A. Tamblin, SA2:Apr 65:17:4295  
Dsc: John H. Nebiker, SA6:Dec 65:59:4546  
Clo: SA2:Apr 66:176:4754  
TR:131:249

Simulation and Analyses of a Refuse Collection  
System, with Abraham Charnes and Stephen J.  
Wersan, SA5:Oct 65:17:4491

Dsc: Jack M. Betz and Robert P. Stearns,  
SA3:Jun 66:17:4830  
Clo: SA6:Dec 66:117:4996  
Dsc, with Robert S. Gemmell, SA1:Feb 66:  
328:4637, of "Research on Variables Affecting  
Filtration", SA4:Aug 65:1:4436

**RAHM, LENNART**

Dsc, HY4:Jul 66:197:4859, of "Factors In-  
fluencing Flow in Large Conduits: Report of the  
Task Force on Flow in Large Conduits of the  
Committee on Hydraulic Structures", HY6:Nov  
65:123:4534

**RAICHLEN, FREDERIC**

Wave-Induced Oscillations in Harbors, with  
Arthur T. Ippen, HY2:Mar 65:1:4241  
TR:131:183

**RAINER, JOHANN H.**

See Alfredo H.-S. Ang, EM2:Apr 64:195:3878

**RAINWATER, FRANK H.**

Dsc, HY5:Sept 66:277:4891, of "Processing  
Streamflow Data", HY2:Mar 66:145:4725

**RAIT, ROBERT A.**

ASCE Preliminary Research on Pipeline Flota-  
tion: Report of the Pipeline Flotation Research  
Council, ASCE, PL1:Mar 66:27:4737

**RAJARATNAM, NALLAMUTHU**

End Depth for Circular Channels, with D.  
Muralidhar, HY2:Mar 64:99:3828

Dsc: Praxitelis A. Argyropoulos, HY5:Sep 64:  
261:4050; R. M. Advani, HY5:Sep 64:263:4050;  
Hans J. Leutheusser, HY5:Sep 64:266:4050;  
Frank B. Campbell and Peter M. Smith, HY5:  
Sep 64:266:4050; M. H. Diskin, HY6:Nov 64:  
293:4130

Clo: HY3:May 65:281:4304  
Corr: HY1:Jan 66:81:4596  
TR:130:407

The Hydraulic Jump as a Wall Jet, HY5:Sep 65:  
107:4482

Dsc: Marur V. Ramamoorthy and Ramprasad,  
HY3:May 66:110:4805; Sivamurugan Nagarat-  
nam, HY3:May 66:112:4805; N. K. Gupta, HY3:  
May 66:115:4805; F. Sananes and Joseph W.  
Fortey, HY3:May 66:117:4805; Junn-Ling  
Chao, HY3:May 66:119:4805; Praxitelis A.  
Argyropoulos, HY3:May 66:121:4805  
Submerged Hydraulic Jump, HY4:Jul 65:71:4403  
Dsc: Caylord V. Skogerboe, HY1:Jan 66:146:  
4596; Ramaprasad and Marur V. Ramamoor-  
thy, HY1:Jan 66:149:4596; Ben-Chie Yen, HY2:  
Mar 66:420:4708  
Clo: HY4:Jul 66:154:4859

Err: HY6:Nov 66:207:4959

TR:131:633

Dsc, HY1:Jan 66:107:4596, of "Boundary Layer  
Development and Spillway Energy Losses", HY3:  
May 65:149:4331

Dsc, with Kanakatti Subramanya, HY6:Nov 66:  
231:4959, of "Diffusion of Sediment in a Sub-  
merged Jet", HY2:Mar 66:153:4726

**RAJU, RANGA K. G.**

See R. J. Garde, HY4:Jul 66:77:4869

**RAMADAN, F. M.**

See M. A. El-Dib, SA2:Apr 66:97:4795

**RAMAMOORTHY, MARUR V.**

Dsc, with Ramaprasad, HY3:May 66:110:4805,  
of "The Hydraulic Jump as a Wall Jet", HY5:  
Sept 65:107:4482  
See Ramaprasad, HY1:Jan 66:149:4596

**RAMAPRASAD**

Dsc, with Marur V. Ramamoorthy, HY1:Jan  
66:149:4596, of "Submerged Hydraulic Jump",  
HY4:Jul 65:71:4403

See Marur V. Ramamoorthy, HY3:May 66:

**RAMASESHAN, SUNDARESA**

Dsc, HY5:Sept 66:238:4891, of "Parametric  
Hydrology and Stochastic Hydrology", HY6:Nov  
65:119:4539

See Ven Te Chow, HY4:Jul 65:205:4416

**RAMIAH, B. K.**

Factors Effecting Seismic Design of Water  
Towers, with D. S. Rajata Mohana Gupta, ST4:  
Aug 66:13:4886

**RAMSEIER, ROY E.**

Dsc, SA4:Aug 66:81:4873, of "What is Pollu-  
tion? An Engineer's Viewpoint", SA1:Feb 66:  
109:4659

**RAND, WALTER**

Flow Over a Dentated Sill in Open Channel,  
HY5:Sept 66:135:4913  
Flow Over a Vertical Sill in an Open Channel,  
HY4:Jul 65:97:4408

Corr: HY4:Jul 66:156:4859

TR:131:794

Dsc, HY1:Jan 66:102:4596, of "Straight Drop  
Spillway Stilling Basin", HY3:May 65:101:4328

**RANTZ, S. E.**

Dsc, CE:Mar 66:85 of "A Simple Method for  
Determining Water Surface Profiles," CE:Oct  
65:85

**RAO, B. C. SYAMALA**

Dsc, with N. S. Lakshamana Rao, HY4:Jul 66:  
173:4859, of "Factors Influencing Flow in Large  
Conduits: Report of the Task Force on Flow in  
Large Conduits of the Committee on Hydraulic  
Structures", HY6:Nov 66:123:4534

Dsc, with N. S. Lakshmana Rao, PO1:Jan 66:  
141:4598, of "Hydraulic Studies of Large Pen-  
stock Trifurcation", PO1:May 65:59:4334

**RAO, B. VESUDEVA**

Dsc, HY6:Nov 66:212:4959, of "Use of Baffles in Open Channel Expansions", HY2:Mar 66:1:4703

**RAPP, RICHARD H.**

Comparison of Space Resection Adjustments, SU1:Jan 66:17:4605

**RASHID, YUSEF**

See Ray W. Clough, EM1:Feb 65:71:4229

**RASKE, THEODORE F.**

See Alois L. Schlack, Jr., EM6:Dec 66:175:5047

**RATHBUN, RONALD E.**

Dsc, with Atul Goswami, HY6:Nov 66:251:4959, of "Sediment Transportation Mechanics: Initiation of Motion", by the Task Committee on Preparation of Sedimentation Manual, ASCE, HY2:Mar 66:291:4738

**RAUDKIVI, A. J.**

Measurement of Ruffled Water Surface Elevation, HY2:Mar 66:65:4254

Corr: HY1:Jan 66:85:4596

TR:131:288

Dsc, HY6:Nov 66:253:4959, of "Sediment Transportation Mechanics: Initiation of Motion", by the Task Committee on Preparation of Sedimentation Manual, ASCE, HY2:Mar 66:291:4738

**RAWLINGS, BARRY**

Dynamic Changes of Mode in Rigid-Plastic Structures, EM2:Apr 65:1:4283

TR:131:176

**RAYMOND, GERALD PATRICK**

Consolidation of Slightly Overconsolidated Soils, SM5:Sept 66:1:4893

Dsc, SM4:Jul 66:82:4860, of "Consolidation of Normally Consolidated Clay", SM5:Sept 65:15:4481

**RAZANI, REZA**

Optimum Design of Constant-Depth Plate Girders, with George G. Goble, ST2:Apr 66:253:4787

**READING, THOMAS J.**

Admixtures for Concrete, CE:Mar 66:52

**REBHUN, M.**

Evaluation of Hydraulic Efficiency of Sedimentation Basins, with Y. Argaman, SA5:Oct 65:37:4523

Dsc: Alfred T. Wallace, SA2:Apr 66:179:

4754; Hassan M. El-Baroudi, SA3:Jun 66:27:4830

**RECHARD, PAUL A.**

Determining Bank Storage of Lake Mead, IR1:Mar 65:141:4268

Dsc: H. C. Riggs, IR3:Sep 65:99:4453; Jack E. Kelly, IR4:Dec 65:112:4550; Raymond A. Hill, IR4:Dec 65:115:4550; Dallas E. Cole and W. Don Maughan, IR4:Dec 65:120:4550

Clo: IR3:Sept 66:62:4892

TR:131:639

**RECTOR, RALPH L.**

Dsc, WW2:May 66:50:4808, of "Beach Nourishment from Offshore Sources", WW3:Aug 65:1:4428

**REDDY, DRONNADULA V.**

See Michael J. Forrestal, EM3:Jun 65:1:4354

**REDDY, Y. R.**

Dsc, with Subir Karr, PO1:Jan 66:146:4598, of "Hydraulic Studies of Large Penstock Trifurcation", PO1:May 65:59:4334

**REDMAN, ARTHUR H.**

See, Martin C. Rissel, CE:Dec 66:42

**REDWOOD, RICHARD G.**

Dsc, ST5:Oct 66:389:4922, of "Framing Connections for Square Structural Tubing", ST2:Apr 66:175:4782

**REESE, LYMON C.**

See Harry M. Coyle, SM2:Mar 66:1:4702

**REEVE, DONALD C.**

Dsc, IR4:Dec 66:92:4995, of "Salinity Problems and Management in River Systems", IR1:Mar 66:77:4733

**REICH, BRIAN M.**

Tactily Maximized Small Watershed Flood Estimates, with Lourens A.V. Hiemstra, HY3:May 65:217:4339

Dsc: R. P. Perold, HY1:Jan 66:130:4596; John G. Merkle, HY1:Jan 66:132:4596; Neal E. Minshall, HY1:Jan 66:141:4596; Robert L. McFall, HY1:Jan 66:142:4596; William James, HY1:Jan 66:142:4596

Clo: HY4:Jul 66:146:4859

TR:131:753

**REID, R. O.**

Dsc, WW2:May 66:55:4808, of "Irregular Wave Forces on a Pile", WW4:Nov 65:1:4528

**REID, T. L.**

See D. Grant Huber, HY1:Jan 66:31:4618

**REIDY, PETER J.**

Verrazano-Narrows Bridge: Development and Financing Project, CO2:Mar 66:1:4740

**REINSCHMIDT, KENNETH F.**

DATALINK: A Structural Laboratory On-Line Language, ST6:Dec 66:213:5011

Iterative Design and Structural Optimization, with C. Allin Cornell and John F. Brtochie, ST6:Dec 66:281:5015

See William A. Little, CE:Aug 65:71

**REISS, MAX**

Analysis of Short Folded Plates, with Michael Yitzhak, ST5:Oct 65:233:4516

Dsc: Alexander C. Scordelis and Kam-Shing Lo, ST3:Jun 66:270:4831

**REITMAN, HERMAN E.**

Aluminum Columns--Have Capacities of Heat-Treated Welded Members Been Underestimated?, CE:June 66:75

**REITZ, HENRY M.**

Foundations on Fissured Limestone--How They Were Selected, CE:Sep 65:52  
TR:131:543

**REMSON, IRWIN**

Ground-Water Models Solved by Digital Computer, with Charles A. Appel and Raymond A. Webster, HY3:May 65:133:4330  
TR:131:855

Vertical Drainage of an Unsaturated Soil, with Ronald L. Drake, Samuel S. McNeary, and Edward M. Wallo, HY1:Jan 65:55:4196

Corr: HY4:Jul 65:296:4399

Dsc: Wilfried Brutsaert, HY5:Sep 65:280:4464

Clo: HY2:Mar 66:361:4708

TR:131:223

**RENARD, KENNETH G.**

Hydrographs of Ephemeral Streams in the Southwest, with Robert V. Keppel, HY2:Mar 66:33:4710

Dsc: Michael D. Hudlow and Robert A. Clark, HY6:Nov 66:215:4959

**RENAU, LUIS F. F.**

Dsc, SM2:Mar 66:187:4701, of "Standard Penetration Test: Its Uses and Abuses", SM4:Jul 65:67:4395

**RENTON, J. D.**

Dsc, EM1:Feb 66:207:4646, of "Grid-Frame-work Method for Plates in Flexure", EM3:Jun 65:53:4361

**REPLOGLE, JOHN A.**

Evaluation of Pipe Elbows as Flow Meters, with Lloyd E. Myers and Kenneth J. Brust, IR3:Sept 66:17:4888

Flow Measurements with Fluorescent Tracers, with Lloyd E. Myers and Kenneth J. Brust, HY5:Sept 66:1:4895

Tractive-Force Distribution in Open Channels, with Ven Te Chow, HY2:Mar 66:169:4727

**RESENDIZ, D.**

See T. H. Wu, SM6:Nov 66:229:4991

**RETI, ANDREW A.**

Dsc, SM4:Jul 66:112:4860, of "Piling Difficulties in the New York Area", SM1:Jan 66:43:4617

**REYNOLDS, ALAN J.**

See Shiu Wai Law, HY2:Mar 66:207:4730

**REYNOLDS, LUTHER S.**

Dsc, CE:Jan 66:72, on attitudes in quality control

**RHODES, ROBERT B.**

Dsc, CE:Mar 66:74 on representation of ASCE members in Proceedings, CE:Jan 66:73

**RHODY, FRANCIS J.**

Aircraft Arresting System, AT2:Oct 65:45:4493  
TR:131:685

**RIBBLE, GEORGE E.**

Graphical Method for Discounting Future Benefits in Feasibility Studies, CE:Nov 65:86  
TR:131:662

**RICHARD, RALPH M.**

Analysis of Nonlinear Structures: Force Method, with John E. Goldberg, ST6:Dec 65:33:4553

Dsc: Alan Jennings, ST3:Jun 66:279:4831;

J. M. Howe and J. A. Richardson, ST4:Aug 66:88:4871

**RICHARDS, ROBERT W.**

A New Look at Engineering Reports, CE:Oct 66:52

**RICHARDSON, EVERETT V.**

See Avery A. Bishop, HY2:Mar 65:175:4266

**RICHARDSON, J. A.**

See J. M. Howe, ST4:Aug 66:88:4871

**RICHARDSON, JOE T.**

Measuring Structural Behavior of Glen Canyon Dam, SU2:Jul 64:133:3987

Dsc: Everett D. Morse, SUL:Apr 65:73:4280;

Louis H. Roehm, SUL:Apr 65:74:4280

Clo: SU2:Jun 66:47:4832

TR:131:410

**RICHART, F. E., JR.**

See J. Lyamer, SM1:Jan 66:65:4592

**RIDDIFORD, MICHAEL**

Better Specifications--A Vital Need (The

Younger Viewpoint) CE:Mar 66:96

Reconstructing the ASCE Journals (The

Younger Viewpoint) CE:Aug 66:90

**RIDINGER, H. J.**

See, J. H. Millett, CE:Oct 66:58

**RIEFENBERG, AL**

CIVIL ENGINEERING'S new representative in Mid-West, CE:Jun 66:85

**RIGGS, LOUIS W.**

Tagus River Bridge--Tower Piers, CE:Feb 66:41

**RIMAWI, WALID H.**

Limit Analysis of Notched Tension Specimens, with Seng-Lip Lee and T. Mura, EM1:Feb 66:11:4636

Err: EM6:Dec 66:236:4994

**RIPPET, WILLIAM J.**

See Victor I. Myers, IR4:Dec 66:59:5040

## RISSEL, MARTIN C.

Continuous-Composite All-Welded Bridges,  
with Arthur H. Redman and Theodore H. Kara-  
sopoulos, CE:Dec 66:42

## RITCHIE, ALISTAIR G. B.

Stability of Fresh Concrete Mixes, CO1:Jan 66:  
17:4610

Dsc: Anthony R. Cusens, CO3:Sept 66:86:4889  
Dsc and addendum, CE:Mar 66:86, of "Lateral  
Pressure of Concrete on Formwork," CE:Dec  
65:60

## ROBECK, GORDON G.

See William H. Irwin, SA6:Dec 66:21:5032

## ROBERTS, ARTHUR L.

See Harold A. Kidby, WW4:Nov 64:77:4134

## ROBERTS, E. A.

Dsc, UP1:May 66:92:4806, of "Aesthetic De-  
sign of Electric Distribution Lines", UP1:Jul  
65:31:4400

## ROBERTSON, JAMES M.

Dsc, HY4:Jul 66:168:4859, of "Factors In-  
fluencing Flow in Large Conduits: Report of  
the Task Force on Flow in Large Conduits of  
the Committee on Hydraulic Structures",  
HY6:Nov 65:123:4534

## ROBERTSON, LAWRENCE M.

Dsc, PO2:Apr 66:52:4763, of "Value of Pumped  
Storage in a Thermal System", PO1:Jan 66:29:  
4619

## ROBESON, FRED A.

Rockfill Design-Carters Dam, with Robert L.  
Crisp, Jr., CO3:Sept 66:51:4906

## ROBINSON, ARTHUR R.

See German Gurfinkel, ST6:Dec 65:159:4574

## ROBINSON, THOMAS W.

Dsc, HY6:Nov 66:220:4959, of "Determination  
of Water Use by Phreatophytes and Hydro-  
phytes", HY2:Mar 66:63:4714

## RODRIGUEZ-AGRAIT, L.

See Leon R. L. Wang, EM6:Dec 66:101:5035

## ROEFS, THEODORE G.

See Warren A. Hall, PO1:Jan 66:67:4628  
See W. Don Maughan, HY2:Mar 66:445:4708

## ROESELER, WOLFGANG G.

History and Techniques of Modern Urban Plan-  
ning, UP1:May 66:5:4810

## ROESSET, JOSE M.

See Gerald M. Sturman, ST6:Dec 66:141:5007

## ROGERS, BRUCE G.

Plastic Analysis and Design of Non-Prismatic  
Members, with William H. Munse, Jr., ST5:  
Oct 65:298:4519  
TR:131:366

## ROLF, RICHARD L.

See John W. Clark, ST6:Dec 64:259:4184  
See John W. Clark, ST3:Jun 66:17:4838

## ROLFING, JOHN A., JR.

Dsc, UP1:May 66:92:4806, of "Aesthetic De-  
sign of Electric Distribution Lines", UP1:Jul 65:  
31:4400

## ROORDA, JOHN

Stability of Structures with Small Imper-  
fections, EM1:Feb 65:87:4230  
TR:131:63

## ROPES, GILBERT E.

Vertical Control on the Great Lakes, SU1:  
Apr 65:35:4289

Dsc: Karl Ramsayer, SU2:Sept 65:68:4462;  
R. Robinson Rowe, SU2:Sept 65:71:4462;  
Edmund H. Lang, SU1:Jan 66:46:4593; Vernon  
L. Kimball, SU1:Jan 66:47:4593  
Clo: SU2:Jun 66:48:4832  
TR:131:561

## ROSENBLUETH, EMILIO

Probabilistic Design to Resist Earthquakes,  
EM5:Oct 64:189:4090

Dsc: Horea Sandi, EM3:Jun 65:270:4348;  
C. Allin Cornell, EM3:Jun 65:273:4348; John  
A. Blume, EM3:Jun 65:275:4348; John L.  
Bogdanoff and John E. Goldberg, EM4:Aug 65:  
194:4433  
Clo: EM1:Feb 66:196:4646  
TR:131:112

Dsc, ST1:Feb 66:502:4638, of "Design of  
Prestressed Concrete Buildings for Earthquake  
Resistance", ST5:Oct 65:1:4488  
See Jorge I. Bustamante, EM4:Aug 66:21:4879

## ROSENHAUPT, SAKY

Masonry Walls on Continuous Beams, with  
Yehuda Sakal, ST1:Feb 65:155:4226  
TR:131:504

## ROSENWASSER, ROBERT

Corr: B. R. Wellek, CE:Nov 66:78  
See William E. November, CE:Sept 66:66

## ROSSANO, AUGUST T.

See Richard E. Johnson, SA1:Feb 66:245:4694

## ROSSOW, EDWIN C.

See Joseph Antebi, ST6:Dec 66:405:5020

## ROTH, ROBERT S.

Dsc, EM1:Feb 66:211:4646, of "Dynamic In-  
stability of a Deep Spherical Shell", EM3:Jun  
65:233:4382

## ROTHENBERG, RONALD

See Alfred R. Pagan, CE:Apr 65:68

## ROTHMAN, HERBERT

See Milton Brumer, CO2:Mar 66:23:4742  
See John W. Kinney, CO2:Mar 66:119:4745



- ROTZ, C. VAUGHN**  
 Poorly Composed Specifications Cost Money,  
 CE:Jan 66:63  
 Dsc, Robert F. Legget, CE:June 66:79
- ROUSE, HUNTER**  
 Critical Analysis of Open-Channel Resistance,  
 HY4:Jul 65:1:4387  
 Dsc: Charles R. Neill, HY6:Nov 65:247:4527;  
 David I. H. Barr and Alan A. Smith, HY2:  
 Mar 66:387:4708; Thaddeus M. Prus-Chacin-  
 ski, HY2:Mar 66:389:4708; E. M. O'Loughlin,  
 HY2:Mar 66:393:4708; César Farell, HY2:  
 Mar 66:395:4708; Chen-lung Chen, HY2:Mar 66:  
 400:4708; Richard R. Brock, HY2:Mar 66:403:  
 4708  
 Corr: HY4:Jul 66:154:4859  
 Clo: HY5:Sept 66:204:4891  
 TR:131:851  
 Fluctuation of Pressure in Conduit Expansions,  
 with Vladimir Jezdinsky, HY3:May 66:1:4815
- ROWE, PETER W.**  
 See D. H. Shields, SM1:Jan 65:15:4198
- ROWE, R. ROBINSON**  
 Philosophy of Culvert Design, HW1:Mar 66:71:  
 4732  
 Dsc, HY2:Mar 66:446:4708 of, "Parametric  
 Hydrology and Stochastic Hydrology: Report of  
 the Committee on Surface Water Hydrology",  
 HY6:Nov 65:119:4539
- ROWLAND, JOHN C.**  
 Epoxy Replaces Steel Armor at Discharge Con-  
 trol Gates, CE:July 66:64
- ROYER, KING**  
 Dsc, CE:Nov 66:78 on not extending formal  
 education beyond the four period
- ROZVANY, GEORGE I. N.**  
 Optimum Synthesis of Prestressed Structures,  
 ST6:Dec 64:189:4178  
 Dsc: John F. Brothie, ST4:Aug 65:232:  
 4432; G. Sved, ST4:Aug 65:235:4432; D. H.  
 Clyde and R. Sharpe, ST4:Aug 65:236:4432  
 Clo: ST1:Feb 66:466:4638  
 TR:131:157
- RUBEY, HARRY**  
 Dsc, CE:Mar 66:86 on Goals of engineering  
 education, CE:Nov 65:103
- RUBINSTEIN, MOSHE F.**  
 Building Design Using Linear Programming,  
 with John Karagozian, ST6:Dec 66:223:5012
- RUFFIN, J. V.**  
 Steel Offshore Towers as Navigation Aids,  
 CE:Nov 65:72  
 Dsc: C. J. Posey, CE:Feb 66:74  
 Author's reply: CE:Feb 66:74  
 TR:131:645
- RUMER, RALPH R., JR.**  
 Resistance to Laminar Flow Through Porous  
 Media, with Philip A. Drinker, HY5:Sept 66:  
 155:4914
- RUMPF, JOHN L.**  
 See John W. Fisher, ST5:Oct 65:181:4513
- RUSHTON, K. R.**  
 Dsc, EM5:Oct 66:141:4921, of "Solution of  
 Anisotropic Seepage by Finite Elements", EMI:  
 Feb 66:111:4676
- RUSSELL, THOMAS L.**  
 Ocean Wave Force Instrumentation, with  
 Volkmar Schoettle and Robert G. Chown, WW4:  
 Nov 66:1:4978
- RUST, RONALD H.**  
 See Iraj Zandi, HY6:Nov 65:37:4532
- RUTLEDGE, PHILIP C.**  
 Apollo-A Trip to the Moon--Symposium, (3)  
 Vertical Assembly Building--Design of Foun-  
 dations, CE:Jan 65:50  
 TR:131:67
- RUTLEDGE, WYMAN C.**  
 See William A. Cawley, SA:Feb 66:1:4640
- RUUS, EUGEN**  
 Dsc, PO1:Jan 66:140:4588, of "Hydraulic  
 Studies of Large Penstock Trifurcation", PO1:  
 May 65:59:4334
- RYDER, E. M. T.**  
 Dsc, CE:Aug 66:73 of "Oroville Dam--Moving  
 165 Million Tons for Worlds Highest Compacted  
 Fill," CE:Apr 66:26  
 Reply, Golze, Alfred R., CE:Aug 66:73
- SAAD, KAMAL F.**  
 Double Slope Method for Pumping Test Analy-  
 sis, with Ahmed Shukry and Aly Baligh, IR2:  
 Jun 65:51:4363  
 Dsc: George J. Kriz, IR4:Dec 65:131:4550;  
 R. Sakthivadivel, IR1:Mar 66:108:4700  
 Clo: IR3:Sept 66:69:4892
- SAAFAN, SAAFAN A.**  
 Theoretical Analysis of Suspension Bridges,  
 ST4:Aug 66:1:4885
- SABNIS, GAJANAN M.**  
 Dsc, ST4:Aug 66:87:4871, of "Comparison of  
 Simplified Theories for Folded Plates", ST6:  
 Dec 65:1:4552  
 Dsc, with Richard N. White, ST4:Aug 66:98:  
 4871, of "Test of a Ferro-Cemento Precast  
 Folded Plate", ST6:Dec 65:239:4583  
 See Richard N. White, ST2:Apr 66:443:4759
- SACHS, MILTON S.**  
 Perspective on Water Deslating, CE:Nov 66:66

**SAFFIR, HERBERT S.**

Hurricane Betsy in South Florida, CE:Aug 66:49

**SAHA, G. P.**

Dsc, ST4:Aug 66:85:4871, of "Design of Concrete Multibeam Bridge Decks", ST5:Oct 65:255:4518

**SAKAL, YEHUDA**

See Saky Rosenhaupt, ST1:Feb 65:155:4226

**SAKTHIVADIVEL, R.**

Dsc, IR1:Mar 66:108:4700, of "Double Slope Method for Pumping Test Analysis", IR2:Jun 65:51:4363

**SALEM, ADEL H.**

Dsc, ST3:Jun 66:261:4831, of "Strength of Single-Story Steel Frames", ST5:Oct 65:81:4507

**SALISBURY, EUGENE FRANKLIN**

Memoir of, TR:131:912

**SALMON, MARTIN A.**

Crushable Materials for Structural Blast Shields, with Carl J. Costantino, ST3:Jun 65:229:4384

TR:131:191

Large Plastic Deformation of Pressurized Cylinders, EM3:Jun 66:33:4854

**SALTER, WINFIELD O.**

Two Different Approaches to Subway Design, ST6:Dec 66:117:5006

**SAMI, SEDAT**

See John R. Glover, EM6:Dec 66:257:4994

**SANANES, F.**

Dsc, with Joseph W. Fortey, HY3:May 66:117:4805, of "The Hydraulic Jump as a Wall Jet", HY5:Sep 65:107:4482

**SANBORN, LEONARD F.**

Dsc, CE:Nov 66:77 seeking information on "Are Engineers Safer Drivers?"

**SANDBORN, VIRGIL A.**

See J. L. Chao, HY2:Mar 65:193:4269

**SANDERS, WILLIAM L.**

Dsc, CO1:Jan 66:79:4597, of "Machine Tunneling on Missouri River Dams", CO1:May 65:1:4314

**SANKS, ROBERT L.**

Partial Demineralization of Brackish Waters, with Warren J. Kaufman, SA6:Dec 66:57:5037

**SANTINA, WILLIAM J.**

Duplicate Locks for Illinois Waterway, with George B. Wesler, WW4:Nov 64:1:4118

Dsc: Dcswell Gullatt, WW3:Aug 65:145:4420

Clo: WW1:Feb 66:129:4639

TR:131:159

Dsc, with George B. Wesler, WW3:Aug 66:101:4872, of "Practical Tonnage Capacity of Canalized Waterways", WW1:Feb 66:33:4644

**SARMA, K. V. N.**

Dsc, with Kyatsandra Seetharamiah, HY5:Sept 66:216:4891, of "Sediment Transport in Supercritical Flow", HY6:Nov 65:57:4533

**SATYANARAYANA, B.**

Earth Pressures for Bilinear Backfill Surface, SM1:Jan 65:99:4209

Dsc: Alfreds R. Jumikis, SM4:Jul 65:236:4394

Clo: SM1:Jan 66:175:4594

TR:131:295

**SAVINI, JOHN**

Dsc, HY1:Jan 66:86:4596, of "Flow Measurements at Columbia River Power Plants", HY2:Mar 65:125:4263

**SAWKO, F.**

Dsc, ST4:Aug 66:79:4871, of "Design of Concrete Multibeam Bridge Decks", ST5:Oct 65:255:4518

**SAWYER, DONALD A.**

See Arthur N. L. Chiu, ST5:Oct 64:137:4114

**SAWYER, ROBERT**

Utah--Lift Slabs (in Salt Lake City) Cast under Plastic Cover for Raising in Spring, CE:

Jul 65:42

TR:131:454

**SAX, KENNETH W.**

Water Resources Site Preservation on Federal Lands, HY6:Nov 66:81:4976

**SAXE, H. C.**

See B. B. Schimming, SM2:Mar 66:105:4735

**SAXE, VAN RENNSSELAER P.**

Dsc, CE:June 66:79, of "Turning Engineers into Construction Men," CE:Apr 66:42

**SEAROUNIS, JOHN A.**

See Fazlur R. Khan, ST3:Jun 64:285:3957

**SCALZI, JOHN B.**

Research or Practice--Which Way to Go? (The Younger Viewpoint) with Joel I. Abrams, CE:June 66:34

**SCHAAKE, JOHN C.**

Dsc, HY2:Mar 66:363:4708, of "Computer Analysis of Overland Flow", HY3:May 65:81:4325

**SCHAEFER, J. E.**

Wickenburg Sewage Treatment Plant--An Application of a New Process, CE:Nov 66:35

**SCHAEER, PETER A.**

Snowshed Location and Design, HW2:Oct 66:21:4923

**SCHAFFNER, CHARLES E.**

See W. O. Hiltabidle, Jr., CO1:May 65:141:4340

**SCHENCK, HILBERT, JR.**

See Charles Carroll, SM4:Jul 66:31:4865

**SCHIFFMAN, ROBERT L.**

Consolidation of Nonhomogeneous Clay Layers,  
with Robert E. Gibson, SM5:Sep 64:1:4043  
TR:131:659

**SCHILLING, CHARLES G.**

Buckling Strength of Circular Tubes, ST5:  
Oct 65:325:4520

Dsc: Bruce G. Johnston, ST2:Apr 66:445:  
4759; Richard L. de Neufville, ST3:Jun 66:  
272:4831; Robert S. Wozniak, ST3:Jun 66:  
274:4831

**SCHIMMING, B. B.**

Study of Dynamic and Static Failure Enve-  
lopes, with H. J. Haas and, H. C. Saxe, SM2:  
Mar 66:105:4735

**SCHLACK, ALOIS L., JR.**

Elastostatic Problem of a Perforated Square  
Plate, with Robert W. Little, EM5:Oct 64:171:  
4089

Dsc: R. S. Alwar, EM3:Jun 65:268:4348  
No Closure: EM6:Dec 65:4549  
TR:131:51

Resonance of Brams Due to Cyclic Moving  
Loads, with Theodore F. Raske, EM6:Dec 66:  
175:5047

**SCHMERTMANN, JOHN H.**

Dsc, SM1:Jan 66:203:4594, of "Stability of  
Slopes in Anisotropic Soils", SM4:Jul 65:85:4405  
Dsc, SM5:Sept 66:130:4890, of "Standard Pen-  
etration Test: Its Uses and Abuses", SM4:Jul 65:  
67:4395

**SCHMID, WERNER E.**

See David Elms, WW4:Nov 65:11:4529

**SCHMIDT, EUGENE ALBERT**

Memoir of, TR:131:913

**SCHMIDT, HARRY P.**

See R. Dixon Speas, AT2:Oct 64:167:4086

**SCHMIDT, LEWIS C.**

Restraints Against Elastic Lateral Buckling,  
EM6:Dec 65:1:4561  
TR:131:819

**SCHNABEL, JAMES J.**

Dsc, SM2:Mar 66:184:4701, of "Standard  
Penetration Test: Its Uses and Abuses", SM4:  
Jul 65:67:4395

**SCHNELLER, FRANK**

Interstate = Benefits (Lives + Dollars), CE:  
May 65:33  
TR:131:313

Is the Engineering Profession Saying What It  
Means? (The Younger Viewpoint) CE:Jan 66:91

**SCHNOBRICH, WILLIAM C.**

Dsc, with Bijan Mohraz, EM5:Oct 66:144:  
4921, of "Plane-Frame Methods for Plates  
in Extension", EM1:Feb 66:157:4695

**SCHNORE, AUSTARS R.**

Dsc, SM2:Mar 66:194:4701, of "Effects of  
Driving Displacement Piles in Lean Clay", SM5:  
Sept 65:1:4476

**SCHOETTLE, VOLKMAR**

See Thomas L. Russell, WW4:Nov 66:1:4978

**SCHOFER, JOSEPH L.**

Dsc, HW2:Oct 66:116:4919, of "High Density  
Vehicular Flow-Density Relationships", HW2:  
Dec 65:37:4581

**SCHREYER, H. L.**

Buckling of Shallow Arches, with Ernest F.  
Masur, EM4:Aug 66:1:4875

**SCHROEDER, EDWARD D.**

Mass and Energy Relationships in Anaerobic  
Digestion, with Arthur W. Busch, SA1:Feb 66:  
85:4655  
Dsc: John S. Jeris, SA6:Dec 66:119:4996

**SCHULER, PATRICK J.**

Reports Production--HNT & B Style, CE:Oct  
66:54

**SCHULTZ, ALBERT B.**

See Kenneth E. Blanchard, EM5:Oct 65:27:4500

**SCHUSTER, JACK C.**

Canal Discharge Measurements with Radio-  
isotopes, HY2:Mar 65:101:4258  
Dsc: Hugo B. Fischer, HY5:Sept 65:317:4464;  
William W. Sayre, HY6:Nov 65:185:4527  
Clo: HY3:May 66:85:4805  
TR:131:359

**SCHWARTZ, H. IVAN**

Nappe Oscillation, HY6:Nov 64:129:4138  
Dsc: Eduard Naudascher, HY3:May 65:389:  
4304; K. Petrikat and T. E. Unny, HY5:Sep 65:  
223:4464  
TR:131:71  
Clo: HY1:Jan 66:82:4596

**SCORDELIS, ALEXANDER C.**

Strength of Reinforced Concrete Folded Plate  
Models, with Peter V. Gerasimenko, ST1:  
Feb 66:351:4688

Dsc: Richard M. Barker, ST3:Jun 66:296:  
4831; N. J. Gardner, ST4:Aug 66:107:4871;  
John E. Breen and Weldon W. Aldridge, ST5:  
Oct 66:375:4922; Peter Gergely, ST5:Oct 66:  
377:4922; Kaveti Seetharamulu, ST5:Oct 66:  
379:4922

Dsc, with Kam-Shing Lo, ST3:Jun 66:281:4831,  
of "Analysis of Continuous Folded Plate Sur-  
face", ST6:Dec 65:117:4555

Dsc, with Kam-Shing Lo, ST3:Jun 66:270:4831,  
of "Analysis of Short Folded Plates", ST5:Oct 65:  
233:4516

- SCOTT, GORDON D.**  
See Bobby O. Hardin, EM1:Feb 66:143:4678
- SCOTT, MARION B.**  
See Robert R. Snell, ST4:Aug 65:169:4451
- SCOTT, RONALD F.**  
Lunar Problems in Soil Engineering, SM1:  
Jan 65:14:194  
TR:131:710
- SCOTT, VERNE H.**  
See Mahmoud A. Abu-Zied, HY6:Nov 64:145:  
4142  
See Gert Aron, HY5:Sept 65:1:4459  
See Gert Aron, HY6:Nov 66:95:4977  
See George J. Kriz, HY5:Sept 66:39:4899  
See George J. Kriz, HY5:Sept 66:49:4901
- SEADERS, JOHN**  
See William H. Delay, SA1:Feb 66:115:4675
- SEAMAN, W. K.**  
Revised Bibliography on Chemical Grouting;  
Third Progress Report of the Committee on  
Grouting, Soil Mechanics and Foundations Di-  
vision, ASCE, SM6:Nov 66:39:4969
- SEARES, FREDERICK D.**  
See Arthur E. Brington, IR1:Mar 65:117:4264
- SEED, H. BOLTON**  
Clay Mineralogical Aspects of the Atterberg  
Limits, with Richard J. Woodward and Raymond  
Lundgren, SM4:Jul 64:107:3983  
Dsc: J. MacNeill Turnbull, SM1:Jan 65:218:  
4197; Melvin I. Esrig, SM1:Jan 65:220:4197;  
Lelia Arcan, SM2:Mar 65:113:4257  
Clo: SM1:Jan 66:163:4594  
TR:131:285  
Clay Strength Under Earthquake Loading Con-  
ditions, with Clarence K. Chan, SM2:Mar 66:  
53:4723  
Earthquake Stability of Slopes of Cohesionless  
Soils, with Richard E. Goodman, SM6:Nov 64:  
43:4128  
Dsc: Peter W. Rowe, SM3:May 65:160:  
4308; Jorge I. Bustamente, SM4:Jul 65:208:  
4394; V. Venkatasubba Rao, SM5:Sept 65:  
109:4457  
Corr: SM6:Nov 65:108:4525  
Clo: SM3:May 66:87:4807  
TR:131:466  
Fundamental Aspects of the Atterberg Limits,  
with Richard J. Woodward and Raymond Lund-  
gren, SM6:Nov 64:75:4140  
Dsc: Melvin I. Esrig, SM4:Jul 65:211:4394;  
A.S. Kezdi, SM4:Jul 65:213:4394; Thomas K.  
Liu, Norbert O. Schmidt and Thomas H.  
Thornburn, SM4:Jul 65:217:4394; Jaroslav  
Feda, SM6:Nov 65:109:4525  
Clo: SM4:Jul 66:63:4860  
TR:131:531  
Liquefaction of Saturated Sands During Cyclic  
Loading, with Kenneth L. Lee, SM6:Nov 66:  
105:4972
- A Method for Earthquake Resistant Design of  
Earth Dams, SM1:Jan 66:13:4616  
Dsc: Harry R. Cedergren, SM5:Sept 66:140:  
4890; Dalim K. Majumdar and Gary G. La-  
France, SM6:Nov 66:251:4958  
Seismic Coefficient in Earth Dam Design, with  
G. R. Martin, SM3:May 66:25:4824  
Settlement Analyses, A Review of Theory and  
Testing, SM2:Mar 65:39:4275  
Dsc: Carl B. Crawford, SM6:Nov 65:127:4525  
There will be no closure, SM3:May 66:4807  
See James M. Duncan, SM5:Sept 66:21:4903  
See J.M. Duncan, SM6:Nov 66:81:4971  
See R.E. Goodman, SM2:Mar 66:125:4736  
See I. Noorany, SM2:Mar 65:49:4274
- SEETHARAMIAH, KYATSANDRA**  
See K. V. N. Sarma, HY5:Sept 66:216:4891
- SEETHARAMULU, KAVETI**  
Dsc, ST5:Oct 66:379:4922, of "Strength of  
Reinforced Concrete Folded Plate Models",  
ST1:Feb 66:351:4688  
See Tekal Vishwanath, ST6:Dec 65:239:4583
- SELF, MORRIS W.**  
Ultimate Strength of Reinforced Concrete Flat  
Slabs, ST4:Aug 64:205:4013  
Dsc: K.S. Subba Rao, ST2:Apr 65:197:  
4285; William L. Gamble, ST2:Apr 65:199:  
4285  
Clo: ST5:Oct 65:355:4498  
TR:131:27
- SELIG, ERNEST T.**  
Shock-Induced Stress Wave Propagation in  
Sand, with Eben Vey, SM3:May 65:19:4332  
Corr: SM2:Mar 66:158:4709  
TR:131:125
- SENNETT, ROBERT E., III**  
Analog Computer Analysis of Static Beams,  
with John Walt, EM2:Apr 65:47:4303  
Dsc: I.F. Christie and A.J.M. Soane, EM6:  
Dec 65:183:4549; C.B. Wilby and Imamuddin  
Khwaja, EM6:Dec 65:186:4549; Sherwood P.  
Prawel, Jr., EM6:Dec 65:187:4549  
Clo: EM3:Jun 66:102:4828
- SERAFIM, J. LAGINHA**  
Interstitial Pressures on Rock Foundations of  
Dams, with Alejandro del Campo, SM5:Sept 65:  
65:4484  
Dsc: Walter F. Emmons, SM4:Jul 66:94:4860;  
Rafael de Urena, SM4:Jul 66:94:4860  
New Shapes for Arch Dams, CE:Nov 66:38  
Seismic Study of Arch Dams, with J. Oliveira  
Pedro, ST2:Apr 65:15:4284  
Corr: ST1:Feb 66:472:4638  
TR:131:590
- SERBIN, HYMAN**  
Dsc, EM1:Feb 66:210:4646, of "Shock and Re-  
flection in a Nonlinear Medium", EM3:Jun 65:  
147:4375

**SETLUR, ACHYUT V.**

See John E. Goldberg, ST5:Oct 66:357:4922

**SHAFFER, LOUIS R.**

See Walter L. Meyer, CO1:May 65:45:4319

**SHAH, INDRAVADAN K.**

See Joseph Antebi, ST6:Dec 66:405:5020

**SHAH, JAYANT M.**

Ill-Conditioned Stiffness Matrices, ST6:Dec 66:443:5022

See Joseph Antebi, ST6:Dec 66:405:5020

**SHANE, RICHARD M.**

Mathematical Model for Flood Risk Evaluation, with Walter R. Lynn, HY6:Nov 64:1:4119

Dsc: Ray K. Linsley, HY3:May 65:375:4304;

Geoffrey N. Alexander, HY3:May 65:376:4304;

Henry C. Riggs and Donald M. Thomas, HY5:

Sept 65:190:4464; Wenshang Fay, HY5:Sept 65:

192:4464

Clo: HY2:Mar 66:346:4708

**SHANK, W. H.**

The Amazing Pennsylvania Canals, CE:Jan 65:66

TR:131:57

**SHANLEY, FRANCIS R.**

Ceramics as Structural Materials, with William J. Knapp, ST4:Aug 65:47:4429

TR:131:403

**SHARMA, NAND K.**

Dsc, with Richard N. White, EM5:Oct 66:136:4921, of "Flow Graph Solutions of Band Matrix Problems", EM1:Feb 66:25:4656

**SHARP, B. B.**

Dsc, HY5:Sept 66:233:4891, of "Secondary Currents in a Corner", HY6:Nov 65:99:4538

**SHARP, MAURICE L.**

Longitudinal Stiffeners for Compression Members, ST5:Oct 66:187:4948

**SHAW, GEORGE B., JR.**

See Jackson L. Durkee, CE:Feb 66:63

**SHAW, J. D.**

See S. D. Alpert, CE:Feb 65:52

**SHAW, JOHN A.**

Understanding the Corrosion Resistance of Concrete Pipe, CE:Jun 65:39

TR:131:396

**SHEARMAN, WINSLOW T.**

Relationship of Offset Center Line to Given Base Line, SU2:Sep 65:39:4479

Dsc: Leslie W. Mahone, SU2:Jun 66:66:4832

**SHERBOURNE, ARCHIBALD N.**

Elastic, Large Deflections of Annular Membranes, with William C. Lennox, EM2:Apr 66:75:4775

See F. Ellyin, EM1:Feb 66:1:4651

**SHERMAN, IRVING**

Dsc, SM1:Jan 66:192:4594, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:Jul 65:1:4390

**SHERMAN, WALTER C., JR.**

Dsc, SM2:Mar 66:192:4701, of "Pumping Test to Determine Permeability Ratio", SM4:Jul 65:151:4415

See R. I. Kaufman, SM5:Sep 64:221:4020

**SHIELDS, D. H.**

Radial Drainage Oedometer for Laminated Clays, with P. W. Rowe, SM1:Jan 65:15:4198

Dsc: P. M. Jarrett, SM5:Sept 65:110:4457

Clo: SM2:Mar 66:155:4701

TR:131:339

**SHIELDS, E. J.**

St. Louis' Popular Street Bridge--Design and Fabrication, CE:Feb 66:52

**SHIH, CORNELIUS C. S.**

Hydraulic Transport of Solids in a Sloped Pipe, PL2:Nov 64:1:4125

Dsc: Robert R. Faddick, PL1:Jul 65:81:4397;

Marion R. Carstens, PL1:Mar 66:75:4699

**SHIKLES, JAMES WALLACE**

Memoir of, TR:131:914

**SHINOZUKA, MASANOBU**

Probability of Structural Failure Under Random Loading, EM5:Oct 64:147:4088

Dsc: Jorge I. Bustamante and Emilio

Rosenblueth, EM4:Aug 65:192:4433

Clo: EM1:Feb 66:190:4646

TR:131:165

Random Vibration of a Beam Column, with L. Henry, EM5:Oct 65:123:4510

Corr: EM4:Aug 66:76:4874

TR:131:611

See Alfred M. Freudenthal, ST1:Feb 66:267:4682

**SHOFNOS, WILLIAM**

See Steacy D. Hicks, HY5:Sept 65:23:4468

**SHOLJI, IHSAN**

See Kenneth J. Ives, SA4:Aug 65:1:4436

**SHOOK, JAMES F.**

Dsc, SM4:Jul 66:117:4860, of "Quality Control of Compacted Earthwork", SM1:Jan 66:93:4623

**SHUBINSKI, ROBERT P.**

Computer Simulation of Estuarial Networks, with James C. McCarty, HY5:Sept 65:33:4470

Dsc: Chintu Lai, HY3:May 66:96:4805

**SHUKRY, AHMED**

See Kamel F. Saad, IR2:Jun 65:51:4363

**SHULDINER, PAUL W.**

Dsc, HW2:Oct 66:109:4919, of "Civil Engineering in Urban Transportation Planning", HW2:Dec 65:11:4560

**SHULDINER, PAUL W. Continued**

Dsc, HW2:Oct 66:110:4919, of "Deficiencies of Urban Transportation Studies", HW2:Dec 65:17:4568

See Donald S. Berry, HW1:Jan 64:53:3768

**SHULITS, SAM**

See John B. Herbich, HY6:Nov 64:203:4145

**SHUMATE, J. W.**

Mammoth Machines Reduce Clearing Costs, CE:Apr 66:48

**SICULAR, GEORGE M.**

Civil Engineer in Perspective, CE:May 66:73

**SIECKE, KURT HUGO**

Memoir of, TR:131:914

**SISS, CHESTER P.**

See Ned H. Burns, ST5:Oct 66:65:4932

See Ned H. Burns, ST5:Oct 66:45:4931

See David S. Hatcher, ST5:Oct 65:205:4514

See James O. Jirsa, ST3:Jun 66:199:4852

See Edward O. Pfrang, ST5:Oct 64:99:4110

See Edward O. Pfrang, ST5:Oct 64:113:4111

See Mortimer D. Vanderbilt, ST4:Aug 65:77:4439

**SIEV, AVINDAV**

Geometry of Suspended Cloth Roofs, ST6:

Dec 65:251:4585

TR:131:859

**SILVA, FRANCISCO P.**

Neutral Pressures in Compacted Cohesive Soils, SM1:Jan 66:105:4624

**SIMMONS, WILLIAM P.**

Experiences with Flow-Induced Vibrations,

HY4:Jul 65:185:4414

Dsc: T. E. Unny and K. Petrikat, HY2:

Mar 66:432:4708

**SIMMS, JAMES F.**

Expansive Cements for Crack-Resistant Concretes, CE:June 66:46

Dsc, Herbert M. Stoll, CE:Nov 66:78;

author's reply, CE:Nov 66:78

**SIMON, L. L.**

Dsc, CO1:Jan 66:106:4597, of "Quality Control in Construction", CO1:May 65:141:4340

**SIMONS, DARYL B.**

See Avery A. Bishop, HY2:Mar 65:175:4266

**SINGAMSETTI, SURYA RAO**

Diffusion of Sediment in a Submerged Jet, HY2: Mar 66:153:4726

Dsc: Nallamuthu Rajaratnam and Kanakatti Subramanva, HY6:Nov 66:231:4959; Sampath-  
iengar Narasimhan, HY6:Nov 66:234:4959;  
David I. H. Barr, HY6:Nov 66:235:4959

**SINGER, PHILIP C.**

See Werner Stumm, SA5:Oct 66:120:4920

**SINGH, BHAWANI**

See Jagdish Narain, SM4:Jul 66:101:4860

See Jagdish Narain, SM5:Sept 66:93:4909

**SINKER, R. F.**

See R. Culver, IR1:Mar 66:1:4706

**SINKOFF, M. D.**

Computer Selection: A New Role for the Civil Engineer, CE:Jan 66:58

See, S. H. Haeckel, CE:Apr 66:39

**SKIDAN, OLEG**

See Melvin L. Baron, EM6:Dec 66:205:5049

**SKOGERBOE, GAYLORD V.**

Dsc, WW1:Feb 66:143:4639, of "Stability of Channels by Armorplating", WW3:Aug 65:117:4452

Dsc, HY1:Jan 66:146:4596, of "Submerged Hydraulic Jump", HY4:Jul 65:71:4403

Dsc, with M. Leon Hyatt, HY5:Sept 66:255:4891, of "Use of Baffles in Open Channel Expansion", HY2:Mar 66:1:4703

**SLICHTER, FRANCIS B.**

Dsc, SM1:Jan 66:191:4594, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:Jul 65:1:4390

**SLUTTER, ROGER G.**

Flexural Strength of Steel and Concrete Composite Beams, with George C. Driscoll, ST2: Apr 65:71:4294

Dsc: Robert E. Loov, ST6:Dec 65:293:4547

TR:131:823

Clo: ST5:Oct 66:315:4922

**SMERDON, ERNEST T.**

See Otto Wilke, IR3:Sept 65:23:4471

**SMITH, ALAN A.**

Dsc, with David I. H. Barr, HY4:Jul 66:195:

4859, of "Factors Influencing Flow in Large

Conduits: Report of the Task Force on Flow in

Large Conduits of the Committee on Hydraulic

Structures", HY6:Nov 65:123:4534

See David I. H. Barr, HY2:Mar 66:387:4708

**SMITH, AUSTIN B.**

See Milton E. Parkman, WW3:Aug 66:98:4872

**SMITH, BRICE R.**

Corr., CE:July 66:70 on the credits for the Busch Memorial Stadium in St. Louis, Mo., CE:

May 66:90

**SMITH, BRYAN STAFFORD**

Behavior of Square Infilled Frames, ST1:

Feb 66:381:4690

Dsc: Alexander Coull, ST5:Oct 66:381:4922

**SMITH, C. S.**

Dsc, EM1:Feb 66:208:4646, of "Grid-Frame-work Method for Plates in Flexure", EM3:

Jun 65:53:4361

**SMITH, CLIFFORD D.**

Use of Baffles in Open Channel Expansions,  
with James N. G. Yu, HY2:Mar 66:1:4703

Dsc: Gaylord V. Skogerboe and M. Leon Hyatt, HY5:Sept 66:255:4891; Mostafa M. Soliman, HY5:Sept 66:259:4891; B. Vesudeva Rao, HY6:Nov 66:212:4959; Victor J. Galay, HY6:Nov 66:213:4959; William H. R. Nimmo, HY6:Nov 66:215:4959

**SMITH, EDWIN S.**

Dsc, SM2:Mar 66:158:4701, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:Jul 65:1:4390

**SMITH, GEORGE L.**

See Dasel E. Hallmark, WW3:Aug 65:117:4452

**SMITH, H. S.**

Homogeneous Activated Sludge--Wastewater Treatment at Lower Cost, with Wayne L. Paulson, CE:May 66:56

**SMITH, PAUL D.**

See Maxwell G. Lay, ST3:Jun 65:25:4355

**SMITH, TRAVIS W.**

Dsc, with Rogel H. Prysock, SM5:Sept 66:142:4890, of "Quality Control of Compacted Earthwork", SM1:Jan 66:93:4623

**SMITH, WILBUR S.**

Transportation Centers, UP1:Jul 65:19:4396  
TR:131:137

**SMYTH, W. R.**

See Albert M. Lount, ST6:Dec 66:93:5005

**SNELL, ROBERT R.**

Reinforcing for a Rectangular Opening in a Plate, with Marion B. Scott, ST4:Aug 65:169:4451

TR:131:463  
See Tsung-chang Yang, HW2:Oct 66:1:4917

**SNYDER, CHARLES E.**

See Ira M. Tillotson, SU2:Sep 65:1:4465

**SNYDER, WILLARD M.**

Men, Models, Methods, and Machines in Hydrologic Analysis, with John B. Stall, HY2:Mar 65:85:4256

Dsc: Myron B. Fiering, HY5:Sept 65:311:4464; Donald R. Jackson, HY5:Sept 65:313:4464; Asit K. Biswas, HY6:Nov 65:184:4527  
Clo: HY4:Jul 66:122:4859  
TR:131:555

**SOBEL, MATTHEW J.**

See Robert V. Thomann, SA5:Oct 64:9:4116

**SOIFER, HERMAN**

Design of Base Plates and Anchor Bolts with Simple Assumptions, CE:Apr 66:63  
Corr., CE:Jun 66:79

Dsc, CE:Apr 66:65, of the chart from "Designing Isolated Footings Against Overturning"  
CE:Dec 65:70

**SOLIMAN, MOSTAFA M.**

Boundary Flow Considerations in the Design of Wells, IR1:Mar 65:159:4272

Dsc: George Terzidis, IR4:Dec 65:122:4550

Clo: IR2:Jun 66:93:4829

TR:131:391

Dsc, HY2:Mar 66:431:4708, of "Exact Free Surface of Gravity Wells", HY4:Jul 65:167:4413

Dsc, IR3:Sept 66:81:4892, of "Steady-State Theories for Drainage", IR1:Mar 66:19:4707

Dsc, HY5:Sept 66:259:4891, of "Use of Baffles in Open Channel Expansion", HY2:Mar 66:1:4703

**SOLOMON S.**

Dsc, HY5:Sept 66:219:4891, of "Potential Evaporation and River Basin Evaporation", HY6:Nov 65:67:4534

**SOM, PIJUSHKANTI**

Anchor Zone Stresses in Prestressed Concrete Beams, with Kalyanmay Ghosh, ST4:Aug 64:49:3996

Dsc: K. T. Sundara Iyengar and K. Chandrashekhara, ST2:Apr 65:171:4285; Alexander Dodge, ST2:Apr 65:175:4285

Clo: ST5:Oct 65:351:4498

TR:131:94

Dsc, ST4:Aug 66:83:4871, of "Design of Concrete Multibeam Bridge Decks", ST5:Oct 65:255:4518

**SOTERIADES, MICHAEL C.**

See Nicholas Perrone, EMI:Feb 65:1:4214

**SOTO, MARCELLO H.**

Analysis of Suspended Curved Girder, ST1:Feb 66:21:4662

**SOZEN, METE A.**

See David S. Hatcher, ST5:Oct 65:205:4514

See James O. Jirsa, ST3:Jun 66:199:4852

See Mortimer D. Vanderbilt, ST4:Aug 65:77:4439

**SPARROW, R. W.**

Behavior of a Soil Mass Under Dynamic Loading, with A. C. Tory, SM3:May 66:59:4825

**SPEAS, R. DIXON**

Influence of V/STOL Aircraft on Airport Design, with Harry P. Schmidt, AT2:Oct 64:167:4096

TR:131:742

**SPENCER, J. R.**

See Arthur F. Pillsbury, IR2:Jun 65:1:4344

**SPENCER, RALPH W.**

Unlined Tunnels of the Southern California Edison Company, with Bruce R. Lavery and Dean A. Barber, PO3:Oct 64:105:4087

Dsc: Frederic L. Lawton, PO1:May 65:130:4313

Clo: PO1:Jan 66:133:4598

TR:131:73



**SPIGOLON, SILVIO J.**

Dsc, CO1:Jan 66:91:4597, of "Designing Specifications--A Challenge", CO1:May 65:29:4315

**SPILLERS, WILLIAM R.**

Artificial Intelligence and Structural Design, ST6:Dec 66:491:5025

Lateral Response of Piles, with Robert D. Stoll, SM6:Nov 64:1:4121

Dsc: David G. Elms, SM4:Jul 65:197:4394

Corr: SM1:Jan 66:167:4594

TR:131:231

On Composite Beams, ST4:Aug 65:17:4423

Dsc: R. Paul Johnson, ST1:Feb 66:498:4638

TR:131:836

See Frank L. Di Maggio, EM3:Jun 65:169:4376

**SPINDEL, PAUL D.**

Stadia--an Automatic Data Input Assembler for Topographic Surveys, CE:May 65:51

TR:131:580

**SPOMER, RALPH G.**

See Neal E. Minshall, IR1:Mar 65:11:4243

**SRIDHARAN, K.**

See Nagar S. Lakshmana Rao, HY6:Nov 66:131:4985

See Nagar S. Lakshmana Rao, HY6:Nov 66:237:4959

**SRIDURONGKATUM, PACHERN**

See Norbert L. Ackermann, HY6:Nov 64:97:4135

**STACEY, WILLIAM ARTHUR, III**

Memoir of, TR:131:915

**STAFFORD, PAUL H.**

Economics of Parking Structures at Airports, AT1:Jan 66:131:4627

**STAHL, FRANK**

See Milton Brumer, CE:Oct 65:76

See John W. Kinney, CO2:Mar 66:119:4745

**STALL, JOHN B.**

See Willard M. Snyder, HY2:Mar 65:85:4256

**STANLEY, DONALD R.**

Dsc, SA2:Apr 66:177:4754, of "Research on Variables Affecting Filtration", SA4:Aug 65:1:4436

**STEAD, FRANK M.**

Water Recreation and the Public Water Supply, CE:Nov 66:54

**STEARNS, ROBERT P.**

See Jack M. Betz, SA3:Jun 66:17:4830

**STEELS, GEORGE N.**

See Alan G. Davenport, ST2:Apr 65:43:4293

**STEINBRUGGE, JOHN**

Improved Inspection on the West Coast, CE:Oct 65:79

TR:131:613

**STEINHARDT, OTTO W.**

Dsc, SM5:Sept 66:139:4890, of "Dynamic Response of Footings to Vertical Loading", SM1:Jan 66:65:4592

**STEINHAUS, MAX**

Translation of "Brown's Timber Railroad Bridges" by Karl Cullman, CE:Nov 66:72

**STELZENMULLER, WILLIAM B.**

Tidal Characteristics of Two Estuaries in Florida, WW3:Aug 65:25:4431

TR:131:545

**STEPHAN, DAVID G.**

Water Renovation--Some Advanced Treatment Processes, CE:Sept 65:46

TR:131:563

**STEPHENS, JOHN C.**

Dsc, HY1:Jan 66:122:4596, of "Capacity Tests in Large Concrete-Lined Canals", HY3:May 65:189:4337

**STEPHENSON, DAVID**

Water-Hammer Charts Including Fluid Friction, HY5:Sept 66:71:4908

**STEPHENSON, RALPH L.**

See Raymond C. Loehr, SA3:Jun 65:31:4351

**STERLING, GORDON H.**

A440 Steel Joints Connected by A490 Bolts, with John W. Fisher, ST3:Jun 66:101:4845

Calibration Tests of A490 High-Strength Bolts, with Emile W.J. Troup, Eugene Chesson, Jr. and John W. Fisher, ST5:Oct 65:279:4515

TR:131:583

**STERN, P.**

On the Bending of Spherical Shells, with

E. Y. W. Tsui, EM3:Jun 66:53:4857

Dsc: Tau-Chao Fan, EM6:Dec 66:259:4894

**STETSON, PAUL**

Large Radar Shield Fabricated at Ground Level, CD:Jun 66:42

Editor's corr., CE:Aug 66:75

**STEVENSON, H. F.**

See R. A. Williamson, ST6:Dec 66:341:5017

**STEVENSON, JOHN ALEXANDER**

See Edgar Burke Wilson, PO1:Jan 66:1:4601

**STOLL, HERBERT M.**

Dsc, CE:Nov 66:78 of "Expansive Cements for Crack-Resistant Concretes," James F. Simms, CE:Jun 66:46

Author's reply, CE:Nov 66:78

**STOLL, ROBERT D.**

Shock Waves in Granular Soil, with Ibrahim A. Ebeido, SM4:Jul 65:107:4406  
Wave Propagation in a Stress-Relaxing Bar, with Milton S. Hess, EM5:Oct 66:25:4928  
See William R. Spillers, SM6:Nov 64:1:4121

**STOLTENBERG, DAVID H.**

Disc, SA3:Jun 66:15:4830, of "Field Estimates of Oxygen Balance Parameters", SA5:Oct 65:1:4485  
Disc, SA4:Aug 66:78:4873, of "Hog Waste Disposal by Lagooning", SA6:Dec 65:27:4567

**STRANDBERG, H. V.**

Design and Construction Features: Boundary Project, PO2:Apr 66:157:4753

**STRATFULL, RICHARD F.**

See John L. Beaton, HW2:Oct 66:128:4919

**STRATTON, E. A.**

Welded Steel Girders Selected for a Major Bridge after a Comparative Study, with Kenneth K. Chen, CE:Feb 66:56

**STRATTON, JAMES H.**

Disc, SM1:Jan 66:185:4594, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:Jul 65:1:4390

**STREETER, VICTOR L.**

Disc, with E. Benjamin Wylie, HY5:Sept 66:274:4891, of "Wave-Plan Analysis of Unsteady Flow in Closed Conduits", HY2:Mar 66:83:4716

**STRELKOFF, THEODOR**

Solution of Highly Curvilinear Gravity Flows, EM3:Jun 64:195:3950

Disc: Hunter Rouse, EM5:Oct 64:467:4093;  
John J. Cassidy, EM1:Feb 65:172:4212  
Clo: EM3:Jun 66:95:4828  
TR:131:355

**STRONG, WINSTON C.**

Disc, IR4:Dec 66:73:4995, of "Rapid Assessment of Sprinkler Performance", IR1:Mar 66:1:4706

**STUBBINGS, JOHN E.**

Disc, SM2:Mar 66:185:4701, of "Standard Penetration Test: Its Uses and Abuses", SM4:Jul 65:67:4395

**STUMM, WERNER**

Disc, with Philip C. Singer, SA5:Oct 66:120:4920, of "Precipitation of Iron in Aerated Ground Waters", SA1:Feb 66:198:4687

**STURMAN, GERALD M.**

Computer-Aided Bridge Design, with Leland C. Albertson, Jr., C. Allin Cornell, and Jose M. Roesset, ST6:Dec 66:141:5007  
See Robert D. Logcher, ST6:Dec 66:191:5010

**SUBRAMANYA, KANAKATTI**

See Nallamuthu Rajaratnam, HY6:Nov 66:231:4959

**SUESS, MICHAEL J.**

Hydraulic Performance Comparison of Centrifugal Pumps, HY2:Mar 65:73:4255

Corr: HY4:Jul 65:297:4399

Disc: Henry L. Thackwell, HY5:Sept 65:309:4464; Y.R. Reddy and Subir Kar, HY6:Nov 65:172:4527; Llewellyn E. Jones, HY6:Nov 65:180:4527; Ramaprasad and M.V. Ramamoorthy, HY6:Nov 65:181:4527; David I.H. Barr, HY6:Nov 65:182:4527  
Clo: HY3:May 66:82:4805  
TR:131:404

**SUGIO, SUTESABURO**

Disc, HY1:Jan 66:108:4596, of "Channel Gradients Above Gully-Control Structures", HY3:May 65:165:4333

**SUN, CHIN-TEH**

See Jan D. Achenbach, EM5:Oct 65:61:4504

**SUNDARAM, P. N.**

Disc, SM4:Jul 66:83:4860, of "Consolidation of Normally Consolidated Clay", SM5:Sept 65:15:4481

**SUTER, MAX**

Disc, HY2:Mar 66:444:4708, of "Economics of Ground-Water Recharge", HY4:Jul 65:249:4418

**SUTHERLAND, ALEX J.**

Disc, HY6:Nov 66:255:4959, of "Sediment Transportation Mechanics: Initiation of Motion", by the Task Committee on Preparation of Sedimentation Manual, ASCE, HY2:Mar 66:291:4738

**SUTTON, WALTER G.**

See Eugene W. Weber, HY4:Jul 65:58:4402

**SWAMINATHAN, K. V.**

Development of Arch Action in Arch Dams, PO1:May 65:39:4329  
Corr: PO2:Apr 66:51:4763  
TR:131:135

**SWEET, ARNOLD L.**

Stochastic Model for Predicting Subsidence, with John L. Bogdanoff, EM2:Apr 65:21:4292  
Corr: EM1:Feb 66:200:4646  
TR:131:59  
Validity of a Stochastic Model for Predicting Subsidence, EM6:Dec 65:111:4573  
Errata: EM5:Oct 66:134:4921  
TR:131:783

**SWEET, ROBERT W.**

Creative Highway Design, CE:Dec 66:36

**SYLVESTER, ROBERT O.**

See Richard E. Johnson, SA1:Feb 66:245:4694

**SYMONDS, PAUL S.**

See J. B. Martin, EM5:Oct 65:43:4938

**SYMONS, JAMES M.**

Dsc, SA6:Dec 66:151:4996, of "Dichromate Versus Ceric Sulphate in Cod Determination", SA2:Apr 66:97:4795

Dsc, SA1:Feb 66:301:4637, of "Effect of Benthic Algae on Stream Dissolved Oxygen", SA3:Jun 65:1:4345

See Rex A. Elder, HY6:Nov 66:61:4975

See William H. Irwin, SA6:Dec 66:21:5032

**SZAVA-KOVATS, GABOR S.**

Position by the Azimuth-Zenith Distance Method, SU2:Jun 66:13:4843

**TABITA, ANGELO**

See Otis M. Jernigan, WW4:Nov 65:31:4536

**TABLER, L. EARL, JR.**

Installation Procedure for Hot Metal Facility, CO1:May 65:179:4341

TR:131:7

**TALBOT, DOUGLAS W.**

Municipal Engineering Is a Profession, CE:Apr 65:57

TR:131:263

Role of the City Engineer in Urban Planning, UP1:May 66:47:4826

**TAMAYO, JORGE Y.**

Buckling of Three-Legged Columns with Batten Bracing, with Morris Ojalvo, ST1:Feb 65:141:4224

Dsc: Robert A. Williamson, ST5:Oct 65:366:4498

Clo: ST2:Apr 66:398:4759

TR:131:419

**TAMBLYN, THOMAS A.**

See Jimmie E. Quon, SA2:Apr 65:17:4295

**TANG, SING-CHIH**

Dynamic Response of a Tube Under Moving Pressure, EM5:Oct 65:97:4508

Corr: EM4:Aug 66:75:4874

TR:131:730

**TANIMOTO, BENNOSUKE**

Operational Method for Continuous Beams, ST6:Dec 64:213:4179

Dsc: Kaveti Seetharamulu, ST4:Aug 65:241:4432

Clo: ST1:Feb 66:470:4638

TR:131:423

Operational Method for Pin-Jointed Trusses, ST3:Jun 66:179:4851

Some Improvements on Proposed Eigen-Matrix Method, ST1:Feb 66:101:4667

Dsc, with Hiroki Hamano, EM1:Feb 66:201:4646, of "Stresses in a Uniformly Loaded Two-Layer Circular Plate", EM3:Jun 65:13:4356

**TANNER, DONALD N.**

See George J. Murphy, CE:Dec 66:51

**TATLOW, RICHARD H., III**

Nominated for ASCE President-Elect, CE:July 66:71

Elected and biography, CE:Oct 66:68

**TAUCHERT, THEODORE R.**

Shock Response of a Simple Beam on Nonlinear Supports, with Robert S. Ayre, EM6:Dec 65:91:4570

TR:131:862

**TAYLOR, ARTHUR C., JR.**

Torsional Restraint of Lateral Buckling, with Morris Ojalvo, ST2:Apr 66:115:4776

**TAYLOR, RICHARD E.**

Computers and the Design of The World Trade Center, ST6:Dec 66:75:5004

**TEDESKO, ANTON**

Apollo--A Trip to the Moon--Symposium, (2) Design of the Vertical Assembly Building, CE:Jan 65:45

TR:131:53

Dsc, SM2:Mar 66:164:4701, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:July 65:1:4390

**TESTA, RENE B.**

Dynamic Response of a Floating Rigid-Plastic Box, with Hans H. Bleich, EM2:Apr 66:131:4783

**TESTIN, G. D.**

Combination Water Systems for High-Rise Buildings, CE:Apr 65:65

TR:131:232

**TEZCAN, SEMIH S.**

Computer Analysis of Plane and Space Structures, ST2:Apr 66:143:4780

Dsc: William Weaver, Jr., ST5:Oct 66:388:4922

Minimum Base Lengths for Cantilever Retaining Walls, CE:Oct 65:84

TR:131:683

**THAYER, HANFORD**

Dsc, CE:May 66:74 of "Sylvanus Thayer, P.E. No. 1," CE:Feb 66:33

**THEOPHIL, C.**

See M. M. Braverman, CE:Apr 65:64

**THERIAULT, G. W.**

Dsc, CE:Mar 66:86, Quality is normal in construction

**THOMAIDES, SPIRO S.**

Earthquake Response of Systems with Bilinear Hysteresis, ST4:Aug 64:123:4009

Dsc: William E. Saul, ST2:Apr 66:195:4285

Clo: ST5:Oct 65:354:4498

TR:131:26

**THOMANN, ROBERT V.**

Estuarine Water Quality Management and Forecasting, with Matthew J. Sobel, SA5:Oct 64:9:4116

Desc: Hugo B. Fischer, SA3:Jun 65:126:4353;

Carl A. Rambow, SA3:Jun 65:128:4353

Clo: SA1:Feb 66:283:4637

TR:131:808

**THOMAS, HENRY H.**

Tunnels for Hydroelectric Power in Tasmania, with Lindsay S. Whitham, PO3:Oct 64:11:4065

Desc: Bruce R. Lavery, PO1:May 65:112:

4313; Frederic L. Lawton, PO1:May 65:114:

4313

Clo: PO1:Jan 66:123:4598

TR:131:84

**THOMAS, NELSON A.**

See Richard L. O'Connell, SA3:Jun 65:1:4345

**THOMPSON, ARNOLD W.**

Evolution and Future of Airport Passenger Terminals, AT2:Oct 64:127:4064

TR:131:297

**THOMPSON, CHARLES B.**

Irrigation Water Requirements in Texas, IR3:Sept 64:17:4040

Desc: John W. Hernandez, Jr., IR1:Mar 65:

223:4242; John J. Vandertulip and Louis L.

McDaniels, IR2:Jun 65:78:4349; Harry F.

Blaney, IR2:Jun 65:79:4349

Clo: IR1:Mar 66:93:4700

TR:131:200

**THOMPSON, MARSHALL R.**

Lime Reactivity of Illinois Soils, SM5:Sept 66:67:4907

**THOMPSON, ORVILLE B.**

See Mark J. Hammer, SM6:Nov 66:1:4956

**THORN, BERTRAM J.**

Nonregular Progression in Strain Hardening Shells, with Jao-Shiun Kao and Seng-Lip Lee, EM1:Feb 66:59:4658

Desc: Nicholas Perrone, EM6:Dec 66:237:4994

**THORNE, JAMES P.**

See Jerald E. Christiansen, IR3:Sept 66:84:4892

**THORSTENSON, FREDERICK W.**

Function and Organization of Highway Drainage Sections, HW1:Jan 65:49:4207

Desc: Richard C. Tennent, HW2:Dec 65:142:

4548; Roy F. Warner, HW2:Dec 65:146:4548;

R. Robinson Rowe, HW2:Dec 65:147:4548

Clo: HW2:Oct 66:105:4919

**TICHÝ, MILK**

Desc, with Milos Vorlíček, ST5:Oct 66:368:4922, of "The Analysis of Structural Safety", ST1:Feb 66:267:4682

**TIEMANN, ARTHUR E.**

Bayesian Approach to Forecasting Loss of Airline Service, AT2:Nov 66:59:4984

See Martin A. Warskow, AT1:Jan 66:35:4609

**TILLOTSON, IRA M.**

Current Problems in Property Location, with Charles E. Snyder, SU2:Sep 65:1:4465

Desc: William J. Wenzel, SU1:Jan 66:45:4593;

Leslie W. Mahone, SU2:Jun 66:51:4832; Joseph P.

Carey, SU2:Jun 66:52:4832; Everett D.

Morse, SU2:Jun 66:53:4832; Hubert L. Morgan,

SU2:Jun 66:56:4832; Winfield H. Eldridge,

SU2:Jun 66:57:4832; John G. McEntyre, SU2:

Jun 66:59:4832; Philip Kissam, SU2:Jun 66:

62:4832; Gurdon H. Wattles, SU2:Jun 66:64:

4832

**TILP, PAUL J.**

Capacity Tests in Large Concrete-Lined

Canals, HY3:May 65:189:4337

Desc: Edward Silberman, HY6:Nov 65:246:

4527; Ralph W. Powell, HY1:Jan 66:120:4596;

John C. Stephens, HY1:Jan 66:122:4596; David

I. H. Barr, HY1:Jan 66:125:4596; Joseph B.

Franzini, HY1:Jan 66:127:4596; Harold D.

Frederiksen, HY1:Jan 66:128:4596; H. L.

Uppal, HY2:Mar 66:378:4708

Clo: HY5:Sept 66:200:4891

TR:131:846

**TIMBY, ELMER K.**

Management Education and ASCE, condensed report of Task Committee on Civil Eng. Management Education, CE:May 66:64

**TIMMONS, F. LEONARD**

Control of Weeds Harmful to Water Uses in the West, WW1:Feb 66:47:4645

**TIMPANY, PETER L.**

See Keith L. Murphy, SA1:Feb 66:317:4637

**TING, T. C. T.**

Desc, EM3:Jun 66:111:4828, of "Flow Graph Solutions of Band Matrix Problems", EM1:Feb 66:25:4656

**TINKHAM, LESTER A.**

Preliminary Design of Rubble-Mound Structures, CE:Aug 66:60

**TINNEY, E. ROY**

See John S. Gladwell, PO1:May 65:59:4334

See Clifton W. Johnson, HY5:Sept 66:165:4916

See John J. Mattiace, PO3:Oct 64:29:4067

**TOAKLEY, A. RAYMOND**

Buckling Loads for Elastically Supported

Struts, EM3:Jun 65:205:4379

Corr: EM2:Apr 66:295:4747

TR:131:168

**TOCHER, JAMES L.**

Selective Inversion of Stiffness Matrices, ST1:Feb 66:75:4665

Desc: Srisaksi Charmonman, ST5:Oct 66:343:

4922

- TODD, DAVID K.**  
Economics of Ground-Water Recharge, HY4:  
Jul 65:249:4418  
Dsc: Stephen V. Allison and Frederick L.  
Hotes, HY1:Jan 66:156:4596; Max Suter, HY2:  
Mar 66:444:4708  
Nuclear Craters for Water Resources Develop-  
ment and Management, CE:Jun 65:64  
TR:131:329
- TOEBES, GERRIT H.**  
Flow-Induced Structural Vibrations, EM3:  
Dec 65:39:4564  
Dsc: Eduard Naudascher, EM4:Aug 66:80:  
4874  
Cio: EM6:Dec 66:234:4994
- TOKSÖZ, SADIK**  
Two-Dimensional Infiltration and Wetting  
Fronts, with Don Kirkham and E. Robert  
Baumann, IR3:Sept 65:65:4477  
Corr: IR2:Jun 66:103:4829  
TR:131:514
- TOMALA, FRYDERICK**  
Inland Water Transportation in Poland, WW1:  
Feb 65:1:4231  
Dsc: Klaus R. Ludwig, WW4:Nov 65:63:4531  
Cio: WW2:May 66:47:4808  
TR:131:875
- TOMLINSON, GEORGE E.**  
Comprehensive Planning in the Southeast,  
HY5:Sept 65:81:4480  
Dsc: Asit K. Biswas, HY3:May 66:109:4805
- TOMPKINS, E. DEVOE**  
Corr., CE:Mar 66:74, list of senior Members  
of Society, CE:Jan 66:74
- TONIAS, ELIAS C.**  
Spiral Problems for an Electronic Computer,  
HW2:Dec 65:101:4590  
Dsc: Thomas F. Hickerson, HW2:Oct 66:118:  
4919; J. M. Gonzalez, HW2:Oct 66:119:4919
- TORIDIS, THEODORE G.**  
Inelastic Response of Brams to Moving Loads,  
with Robert K. Wen, EM6:Dec 66:43:5028  
See Robert K. Wen, EM5:Oct 64:71:4081
- TORIKOGLU, BOGOS**  
Breakwater from No-Cost Fill in Flushing Bay,  
N.Y., CE:July 66:58
- TORY, A. C.**  
See R.W. Sparrow, SM3:May 66:59:4825
- TOTTENHAM, H.**  
Dsc, ST5:Oct 66:360:4922, of "Numerical  
Analysis of Translational Shell Roofs", ST:Feb  
66:223:4679
- TRACY, HUBERT J.**  
Turbulent Flow in a Three-Dimensional  
Channel, HY6:Nov 65:9:4530  
Dsc: Ewart Brundrett, HY3:May 66:123:4805  
Cio: HY6:Nov 66:212:4959
- TRENT, DONALD J.**  
See Lewis Li-Tang Au, EM4:Aug 65:1:4425
- TROLLOPE, DAVID H.**  
See Alan K. Parkins, SM6:Nov 66:135:4973
- TROUP, EMILE W.J.**  
See Gordon H. Sterling, ST5:Oct 65:279:4515
- TROKELL, G. E.**  
Prestressed Lift Slabs Withstand Fire,  
CE:Sept 65:64  
TR:131:762
- TSANG, HSIEN-SAN**  
Analysis of Vierendeel Truss with Inclined  
Chords, ST5:Oct 66:147:4942
- TSO, WAI KEUNG**  
Coupled Vibrations of Thin-Walled Elastic  
Bars, EM3:Jun 65:33:4358  
Corr: EM1:Feb 66:207:4646  
TR:131:175
- TSUI, E. Y. W.**  
See P. Stern, EM3:Jun 66:53:4857
- TUNG, CHI CHAO**  
Response of Supersonic Transports to Runway  
Unevenness, with Joseph Penzien and Robert  
Horonjeff, AT1:Jan 66:1:4603
- TUNG, DAVID H. H.**  
See Thomas C. Kavanagh, CO1:May 65:69:4323
- TURCHICK, ALBERT**  
Appointed Assistant to the Secretary in the De-  
partment of Technical Activities, CE:Dec 66:71
- TURKSTRA, CARL J.**  
Dsc, ST5:Oct 66:366:4922, of "The Analysis of  
Structural Safety", ST1:Feb 66:267:4682
- TURNBULL, WILLARD J.**  
Bank Erosion in Soils of the Lower Mississippi  
Valley, with Ellis L. Krinitzky and Frank L.  
Weaver, SM1:Jan 66:121:4632  
Quality Control of Compacted Earthwork, with  
J.R. Compton and R.G. Ahlvin, SM1:Jan 66:93:  
4623  
Dsc: Edward A. Abdun-Nur, SM4:July 66:116:  
4860; James F. Shook, SM4:July 66:117:4860;  
Travis W. Smith and Rogel E. Prysock, SM5:  
Sept 66:142:4890; Roy A. Nicholls, SM5:  
Sept 66:145:4890
- TUTWILLER, CLARENCE W.**  
See Richard S. Green, SA1:Feb 66:55:4652
- TYER, ARNOLD J.**  
Arkansas--Sludge Burning at North Little  
Rock, CE:Mar 65:54  
TR:131:215

**TYSON, JAMES A.**

The Lewis Smith Rockfill Dam, PO1:Jan 66:81:4633

Dsc: Murray D. Lester, PO2:Apr 66:53:4763

**ULATE, CARLOS A.**

Mud Floods Related to the Irazu Volcano Eruptions, with Manuel F. Corrales, HY6:Nov 66:117:4984

**UNDERWOOD, LLOYD B.**

Machine Tunneling on Missouri River Dams, CO1:May 65:1:4314

Dsc: William L. Sanders, CO1:Jan 66:79:4597

Clo: CO3:Sept 66:77:4889

TR:131:780

**UNNY, T. E.**

Dsc, with K. Petrikat, HY2:Mar 66:432:4708, of "Experiences with Flow-Induced Vibrations", HY4:Jul 65:185:4414

**UPPAL, H. L.**

Dsc, HY2:Mar 66:378:4708, of "Capacity Tests in Large Concrete-Lined Canals", HY3:May 65:189:4337

**VALENTA, J.**

Dsc, EM1:Feb 66:199:4646, of "Complementary Energy Theorem for Symmetric Shells", EM6:Dec 64:73:4149

**VALLASENOR PEÑA, GILBERT**

Memoir of, TR:131:911

**VALENTINE, HAROLD R.**

Rigid Water Column Theory for Uniform Gate Closure, HY4:Jul 65:27:4386

Dsc: Ian C. O'Neill and Harald R. Graze,

HY2:Mar 66:382:4708

Clo: HY6:Nov 66:203:4959

**VAN BUREN, MAURICE P.**

Dsc, ST1:Feb 66:500:4638, of "Deflections of Multiple-Panel Reinforced Concrete Floor Slabs", ST4:Aug 65:77:4439

**VAN DEN BERG, LOWELL A.**

See Ralph Porges, SA1:Feb 66:69:4654

**VANDERBILT, MORTIMER D.**

Deflections of Multiple-Panel Reinforced Concrete Floor Slabs, with Mete A. Sozen and Chester P. Siess, ST4:Aug 65:77:4439

Dsc: Maurice P. van Buren, ST1:Feb 66:500:4638

Clo: ST3:Jun 66:257:4831

TR:131:769

**VAN DER GIESSEN, N.**

See Charles R. Neill, HY5:Sept 66:280:4891

**VAN DER PAS, P. W.**

See R.A. Williamson, ST6:Dec 66:341:5017

**VANKERKHOFF, HARRY P.**

Long Trusses Provide Adjustable Space, CE:Jul 66:67

Dsc, Hamilton V. Bowser, CE:Nov 66:78; author's reply, CE:Nov 66:78

**VANONI, VITO A.**

Sediment Transportation Mechanics: Initiation of Motion: Progress Report of the Task Committee on Preparation of Sedimentation Manual, ASCE, HY2:Mar 66:291:4738

Dsc: Charles R. Neill and N. Van Der Giessen, HY5:Sept 66:280:4891; Thomas Blench, HY5:Sept 66:287:4891; Frederic T. Mavis and Louis M. Laushey, HY5:Sept 66:288:4891; Elliott M. Flaxman, HY6:Nov 66:245:4959; David I. H. Barr and John G. Herbertson, HY6:Nov 66:248:4959; Ronald E. Rathbun and Atul Goswami, HY6:Nov 66:251:4959; A. J. Raudkivi, HY6:Nov 66:253:4959; Alex J. Sutherland, HY6:Nov 66:255:4959

Sediment Transportation Mechanics: Wind Erosion and Transportation: Progress Report by the Task Committee on Preparation of Sedimentation Manual, ASCE, HY2:Mar 65:267:4261  
Clo: HY5:Sept 66:195:4891

**VAN SCHILFGAARDE, JAN**

Transient Design of Drainage Systems, IR3:Sept 65:9:4458

Dsc: Gedeon Dagan, IR1:Mar 66:111:4700

Clo: IR4:Dec 66:72:4995

**VAN TIENHOVEN, JAN C.**

Translation of Foreign Literature on Hydraulics: Eighth Progress Report of the Task Force on List of Translations of the Committee on Hydromechanics, ASCE, HY2:Mar 66:53:4713

**VARGAS, MILTON**

Dsc, SM2:Mar 66:168:4701, of "Role of the 'Calculated Risk' in Earthwork and Foundation Engineering", SM4:Jul 65:1:4390

**VARMA, MAN M.**

Dsc, with Charles Neos, SA1:Feb 66:313:4637, of "An Oxidation Pond as a Tertiary Treatment Device", SA3:Jun 65:31:4351

**VASARHELYI, DESI D.**

Misalignment in Bolted Joints, with William N. Chang, ST4:Aug 65:1:4422

Corr: ST3:Jun 66:257:4831

TR:131:460

**VEERLING, JOHN P.**

Quest for an Airport in New Jersey-New York Area, AT1:Jan 66:21:4607

**VELLOZZI, JOSEPH**

Dsc, EM5:Oct 66:140:4921, of "Vibration Tests for A Nine-Story Steel Frame Building", EM1:Feb 66:81:4660

**VELTROP, JAN A.**

Design of Karadj Arch Dam, with Roman P. Wengler, PO1:Mar 64:1:3827

**VELTROP, JAN A. Continued**

Dsc: K. V. Swaminathan, PO1:May 65:102:

4313

Clo: PO1:Jan 66:117:4598

TR:131:213

**VENDIG, FRED**

Engineers and the Practice of Law, CE:

Oct 66:56

**VERES, SANDOR A.**

Aerial Triangulation Using Independent Photo

Pairs, SU2:Sep 65:27:4469

Dsc: Houssam M. Karara, SU2:Jun 66:65:4832

**VEY, EBEN**

Engineering Properties of Simulated Lunar

Soils, with John D. Nelson, SM1:Jan 65:25:

4199

Dsc: John W. Salisbury, SM4:Jul 65:231:4394;

Rodney W. Johnson, SM5:Sept 65:111:4457;

Leslie G. Bromwell, SM5:Sept 65:114:4457

Clo: SM4:Jul 66:64:4860

See Ernest T. Selig, SM3:May 65:19:4332

**VICIAN, EDWIN B.**

See Jacques W. Delleur, HY5:Sept 66:243:4891

**VISSMAN, WARREN JR.**

Dsc, HY5:Sept 66:242:4891, of "Time in Urban

Hydrology", HY1:Jan 66:13:4615

**VINSON, JACK R.**

Edge Load Solutions for Conical Shells, EM1:

Feb 66:37:4657

Dsc: Hans H. Bleich, EM3:Jun 66:115:4828

**VISHWANATH, TEKAL**

Test of a Ferro-Cemento Precast Folded

Plate, with Ramkrishna P. Mhatre and Kaveti

Seetharamulu, ST6:Dec 65:239:4583

Dsc: Gajanan M. Sabnis and Richard N.

White, ST4:Aug 66:98:4871

**VODAR, BORIS**

See Raymond Epain, EM5:Oct 64:363:4108

**VOELKEL, KARL G.**

See James A. Mueller, SA2:Apr 66:9:4756

**VOGEL, HERBERT D.**

Dsc, WW3:Aug 66:104:4872, of "Laboratory

Contributions to Channel Stabilization", WW1:

Feb 66:87:4673

Dsc, CE:Jul 66:69 on "A World Organization  
of Engineers," Jun 66:37**VOLLMER, ARNOLD H.**

See W. O. Hiltabiddle, Jr., CO1:May 65:141:4340

**VON GUNTEN, GLENN H.**

See Rex A. Elder, HY6:Nov 66:61:4975

**VOORHEES, ALAN M.**

Airport Access, Circulation, and Parking, AT1:

Jan 66:63:4611

What Happens When Metropolitan Areas Meet?,

UP1:May 66:13:4811

Dsc, HW2:Oct 66:111:4919, of "Comprehensive  
Urban Transportation Study Methods", HW2:Dec  
65:57:4575**VORLICEK, MILOS**

See Milik Tichý, ST5:Oct 66:368:4922

**VORTMAN, LUKE J.**

Nuclear Excavation of a Sea-Level Isthmian

Canal, WW4:Nov 64:27:4129

Dsc: Roland H. Carlson, WW3:Aug 65:148:

4420

Clo: WW1:Feb 66:130:4639

TR:131:209

**VUCHIC, VUKAN R.**

Dsc, AT1:Jan 66:173:4595, of "Airport Acces-

sibility Affects Passenger Development", AT1:

Apr 65:47:4302

**WAANANEN, ARVI O.**

Use of Neutron Meters in Soil Moisture

Measurement: Progress Report of the Task

Force on Use of Neutron Meters, Committee

on Hydrometeorology, ASCE, HY6:Nov 64:21:

4123

Dsc: Kenneth Preiss, HY5:Sept 65:193:4464;

Edward R. Burroughs, Jr., HY5:Sept 65:197:

Clo: HY3:May 66:72:4805

**WADE, NEIL H.**

See David J. Henkel, SM6:Nov 66:67:4970

**WAEHNER, ALBERT R.**

Dsc, UP1:May 66:94:4806, of "Aesthetic De-

sign of Electric Distribution Lines", UP1:

Jul 65:31:4400

**WAIT, JOHN**

See Robert E. Sennett, III, EM2:Apr 65:47:

4303

**WALKER, A. C.**

Local Instability in Plates and Channel Struts,

ST3:Jun 66:39:4839

**WALKER, WILLIAM HAMILTON**

Corr., CE:Jan 66:73 on authorship of William

Harry Walker's letter, CE:Nov 65:99

**WALKER, WILLIAM HARRY**

Dsc, CE:Nov 65:99 of "Do You Know That"

item on Shortage of highway engineers, CE:

Aug 65:27

Dsc: Burtis R. Dockery, Denis Gellert, CE:

Jan 66:73; G. Nelson Fizzard on Dsc. by

Burtis R. Dockery, CE:Apr 66:65

Corr: William Hamilton Walker, CE:Jan 66:73

**WALL, WILLIAM J.**

Influence of Soil Types on Stabilization of the

Savannah River, WW3:Aug 65:7:4430

Dsc: Walter C. Carey, WW1:Feb 66:134:4639

Clo: WW3:Aug 66:89:4872

TR:131:717



**WALLACE, ALFRED T.**

Desc, SA2:Apr 66:179:4754, of "Evaluation of Hydraulic Efficiency of Sedimentation", SA5: Oct 65:37:4523

**WALLACE, GEORGE B.**

Differential Settlement at Selfridge Air Force Base, with William C. Otto, SM5:Sep 64:197: 4047

Desc: William M. Perpich and Robert G. Lukas, SM3:May 65:141:4308; William F. Swiger, SM3:May 65:142:4308  
Clo: SM6:Nov 65:99:4525  
TR:131:70

**WALLACE, JAMES R.**

See William W. Emmett, HY6:Nov 64:45:4126

**WALLACE, STUART R.**

Jet Cargo Facility Requirements, AT2:Oct 64: 135:4068  
TR:131:718

**WALLAERT, JAMES J.**

Shear Strength of High-Strength Bolts, with John W. Fisher, ST3:Jun 65:98:4368  
Desc: Eugene Chesson, Jr., ST1:Feb 66:486: 4638  
Clo: ST4:Aug 66:57:4871  
TR:131:766

**WALLO, EDWARD M.**

See Irwin Remson, HY1:Jan 65:55:4196

**WALSH, ROBERT J.**

New York--Linseed-Oil Protection for New York State Thruway Bridges, CE:Jul 65:39  
TR:131:457

**WANG, LEON R. L.**

Effect of Boundary Conditions on Shell Buckling, with L. Rodriguez-Agrait and William A. Little, EM6:Dec 66:101:5035

**WANG, SHOU-LING**

Flexibility of Axially-Loaded Nonuniform Members, ST2:Apr 66:195:4784

**WARD, HOWARD S.**

Analog Simulations of Earthquake Motion, EM5:Oct 65:173:4522  
Desc: Jack R. Benjamin, EM1:Feb 66:213:4464  
Clo: EM4:Aug 66:77:4874

**WARD, JOHN C.**

Turbulent Flow in Porous Media, HY5:Sep 64: 1:4019

Desc: Edward Silberman, HY1:Jan 65:235: 4192; Ian Larsen, HY2:Mar 65:386:4249; Ian C. O'Neill and Alan K. Parkin, HY2:Mar 65: 388:4249; Joseph B. Franzini, HY2:Mar 65: 391:4249; Donald Dean Adrian, HY3:May 65: 321:4304; David I.H. Barr, HY3:May 65: 323:4304; Erik G.W. Lundquist, HY3:May 65: 325:4304; D.K. Sunada, HY5:Sept 65:166:4464  
Clo: HY4:Jul 66:110:4859  
TR:131:664

**WARD, JOSEPH S.**

Engineering Education--From the Practitioner's Viewpoint, CE:Feb 65:58  
Desc: M.D. Morris, CE:Apr 65:80; G.P. Tschebotarioff: CE:Apr 65:80  
TR:131:147  
Starting Your Own Consulting Practice-- Business and Finance, CE:Jan 65:53  
TR:131:61

**WARD, PAUL C.**

See Herbert B. Foster, Jr., SA6:Dec 65:1:4556

**WARGON, ALEXANDER**

Desc, EM2:Apr 66:299:4747, of "Elastic Torsional Analysis of Irregular Shapes", EM6: Dec 65:11:4562

**WARNER, DON L.**

Deep Well Waste Injection--Reaction with Aquifer Water, SA4:Aug 66:45:4881

**WARNER, MARVIN E.**

Desc, CE:Aug 66:74, on "Self Preservation in the Market Place", CE:May 66:67

**WARREN, GEORGE E.**

Desc, CE:May 66:76, of PCA Symposium, CE:Mar 66:32

**WARRICK, A. W.**

Desc, IR4:Dec 66:84:4995, of "Steady-State Theories for Drainage", IR1:Mar 66:19:4707

**WARSKOW, MARTIN A.**

Capacity of Airport Systems in Metropolitan Areas, with Arthur E. Tiemann, AT1:Jan 66: 35:4609  
Desc: Milton B. Meisner, AT2:Nov 66:108: 4955

**WARTUR, M. HARRY**

Desc, CE:Nov 65:99, of "Contracting Conditions and Construction Quality", CE:Aug 65:53  
Desc: Joseph D. D'Annunzio, CE:Mar 66:86

**WATSON, LESLIE J.**

Development of Ground Water in Hawaii, HY6: Nov 64:185:4144  
Desc: Paul F. Keim, HY2:Mar 65:408:4249; Robert L. McFall, HY2:Mar 65:409:4249; Franklin Y.K. Sunn, HY5:Sept 65:233:4464; Agatin T. Abbott, HY5:Sept 65:234:4464; Robert T. Chuck, HY5:Sept 65:234:4464; Frank Wiley, HY5:Sept 65:236:4464; L. Stephen Lau, HY5: Sept 65:236:4464; Doak C. Cox, HY5:Sept 65: 238:4464  
Clo: HY2:Mar 66:359:4708  
TR:131:401

**WATTLES, GURDON H.**

Desc, SU2:Jun 66:64:4832, of "Current Problems in Property Location", SU2:Sept 65:1:4465

- WAUGH, JOSEPH E.**  
Photogrammetric Measurement of Tidal Currents, SU1:Apr 64:17:3857  
Dsc: Daniel Kennedy, SU1:Apr 65:62:4280  
Clo: SU2:Sep 65:67:4462  
TR:131:35
- WEAVER, FRANK L.**  
See Willard J. Turnbull, SM1:Jan 66:121:4632
- WEAVER, WILLIAM, JR.**  
Three-Dimensional Analysis of Tier Buildings, with Mark F. Nelson, ST6:Dec 66:385:5019  
Dsc, ST5:Oct 66:388:4922, of "Computer Analysis of Plane and Space Structures", ST2:Apr 66:143:4780
- WEBER, ARTHUR W.**  
The Dilemma of the Professional Engineers' Licensing Program, CE:May 65:37  
Dsc: Thornton Smith, CE:Sep 65:74  
TR:131:317
- WEBER, EUGENE W.**  
Environmental Effects of Flood Plain Regulations, with Walter G. Sutton, HY4:Jul 65:59:4402  
Dsc: L. Douglas James, HY6:Nov 65:249:4527; Robert L. McFall, HY6:Nov 65:250:4527; Asit K. Biswas, HY2:Mar 66:416:4708; Chesley J. Posey, HY2:Mar 66:418:4708  
Clo: HY5:Sept 66:208:4891  
TR:131:805
- WEBER, WALTER J., JR.**  
See Charles Winklehaus, SA6:Dec 66:129:4996
- WEBSTER, RAYMOND A.**  
See Irwin Remson, HY3:May 65:133:4330
- WEEKS, L. O.**  
See Arthur F. Pillsbury, IR2:Jun 65:1:4344
- WEIDLINGER, PAUL**  
Shock and Reflection in a Nonlinear Medium, with Alva T. Matthews, EM3:Jun 65:147:4375  
Dsc: Hyman Serbin, EM1:Feb 66:210:4646  
Clo: EM6:Dec 66:231:4994
- WEINGARTEN, V. I.**  
Free Vibrations of Conical Shells, EM4:Aug 65:69:4440  
Dsc: Myron E. Lunchick, EM2:Apr 66:295:4747  
Clo: EM5:Oct 66:134:4921
- WEINKAUFF, HENRY C. C.**  
Hydro Project Formulation: Results in the Southeast, with Clement P. Lindner, PO1:Jan 66:15:4606
- WEISSMANN, Gerd F.**  
Dsc, SM5:Sept 66:133:4890, of "Dynamic Response of Footings to Vertical Loading", SM1:Jan 66:65:4592
- WEITSMAN, YECHIEL**  
See F. D. Day, EM5:Oct 66:67:4943
- WELLEK, B. R.**  
Corr, CE:Nov 66:78 of the claim New York has tallest concrete-frame apartment building, William E. November, CE:Sept 66:66
- WELLER, HARVILL E.**  
Channel Stabilization of Alluvial Rivers: Report of the Task Committee on Channel Stabilization Works, ASCE, WW1:Feb 65:7:4236  
Dsc: Rudolf Hertzberg, WW2:May 65:59:4307; Charles R. Neill, WW3:Aug 65:156:4420; Norman R. Moore, WW4:Nov 65:64:4531; Shou-shan Fan, WW4:Nov 65:65:4531; Willard J. Turnbull and C. R. Kolb, WW4:Nov 65:66:4531; J. Chabert and M. Remilieux, WW4:Nov 65:70:4531  
Clo: WW2:May 66:48:4808
- WELLONS, CHARLES M.**  
Dsc, WW3:Aug 66:102:4872, of "Practical Tonnage Capacity of Canalized Waterways", WW1:Feb 66:33:4644
- WELLS, DONALD R.**  
Dsc, WW1:Feb 66:138:4639, of "Wave Forces on Piling for Narrow-Band Spectra", WW3:Aug 66:65:4443
- WEN, ROBERT K.**  
Discrete Dynamic Models for Elasto-Inelastic Beams, with Theodore G. Toridis, EM5:Oct 64:71:4081  
Dsc: William E. Saul, EM3:Jun 65:261:4348  
Clo: EM1:Feb 66:188:4646  
TR:131:187  
See Theodore G. Toridis, EM6:Dec 66:43:5028
- WENGLER, ROMAN P.**  
See Jan A. Veltrop, PO1:Mar 64:1:3827
- WENGROVITZ, SEYMOUR**  
New Trends in Fallout Protection, with Gordon W. Hirtle, CE:Jul 65:47  
TR:131:451
- WENZEL, WILLIAM J.**  
Dsc, SU1:Jan 66:45:4593, of "Current Problems in Property Location", SU2:Sep 65:1:4465
- WERSAN, STEPHEN J.**  
Dsc, SA5:Oct 66:116:4920 of "Optimization Analysis for Biological Filter Design", SA1:Feb 66:163:4684  
See Jimmie E. Quon, SA5:Oct 65:17:4491
- WESLER, GEORGE B.**  
See William J. Santina, WW3:Aug 66:101:4872  
See William J. Santina, WW4:Nov 64:1:4118
- WESTINE, PETER S.**  
Replica Modeling in Soil Dynamics, SM6:Nov 66:169:4980  
Dsc, SM2:Mar 66:198:4701, of "Pore Air Pressure in Soil Subjected to Shock Waves", SM6:Nov 65:41:4541

- WETMORE, JOSEPH W.**  
V/STOL Transports and Their Terminal Requirements, AT1:Jan 66:77:4612
- WETZEL, RICHARD**  
See John D. Nelson, CE:Mar 66:74
- WHEELER, WALTER H.**  
Disc, CE:Nov 66:77 on Engineering Registration, CE:Sept 66:39  
Disc, CE:Dec 66:61 of "Cable-Supported Warehouse Roof for Large Open Area," CE:Sept 66:43
- WHIPPLE, WILLIAM, JR.**  
Regional Drought Frequency Analysis, IR2:Jun 66:11:4837  
A Revolution in the Water Resources Field, CE:Dec 65:63  
Disc: Asit K. Biswas, CE:Apr 66:64  
TR:131:750  
Disc, HY3:May 66:102:4805, of "Water Resources Planning for the Delaware Basin", HY5:Sept 65:65:4475
- WHITE, LAWRENCE A.**  
Computer Program for Horizontal Circle Astronomy, SU2:Jun 66:1:4834
- WHITE, RICHARD N.**  
Framing Connections for Square Structural Tubing, with Pen Jeng Fang, ST2:Apr 66:175:4782  
Disc: Richard G. Redwood, ST5:Oct 66:389:4922  
Disc, with Gajanan M. Sabnis, ST2:Apr 66:443:4759, of "Test of a Reinforced Concrete Flat Plate", ST5:Oct 65:205:4514  
See Gajanan M. Sabnis, ST4:Aug 66:98:4871  
See Nand K. Sharma, EM5:Oct 66:136:4921
- WHITE, WILLIAM A.**  
Action or Retreat for Engineers and Surveyors in Regulation of Professional Practice, CE:Jan 66:54
- WHITE, WILLIAM M.**  
Evaluation of Recreation in Water Developments, PO1:May 65:1:4306  
Disc: Asit K. Biswas, PO1:Jan 66:134:4598
- WHITHAM, LINDSAY S.**  
See Henry H. Thomas, PO3:Oct 64:11:4065
- WHITMAN, ROBERT V.**  
Criteria for Acceptability of Papers: Report of the Committee on Publications of the Soil Mechanics and Foundations Division, ASCE, SM3:May 65:51:4326  
Disc: Asit K. Biswas, SM1:Jan 66:178:4594; James W. Dunham, SM1:Jan 66:178:4594; Charles L. Barker, SM1:Jan 66:180:4594; Francis G. Christian, SM1:Jan 66:181:4594  
Clo: SM4:Jul 66:75:4860  
Yielding and Locking of Confined Sand, with Edmond T. Miller and Peter J. Moore, SM4:Jul 64:57:3966
- Disc: Phillip A. Abbott, Clark P. Sanger, and Warren J. Baker, SM2:Mar 65:107:4257  
Clo: SM6:Nov 65:97:4525  
TR:131:197
- WHITTON, REX M.**  
The Systems Approach to Traffic Safety, CE:Sept 66:40  
Disc: Wilson T. Ballard, CE:Dec 66:61
- WIECHMAN, HOWARD C.**  
Concrete Need Not Hibernate, CE:Nov 65:78  
TR:131:653
- WIEGEL, ROBERT L.**  
Generation of Wind Waves, with Ralph H. Cross, WW2:May 66:1:4816  
See Yuan Jen, PO2:Apr 66:1:4801
- WIESINGER, FREDERICK P.**  
Flexural Analysis of Coplanar Frames, ST1:Feb 66:131:4669  
Disc: Kashi T. Krishnaswamy, ST5:Oct 66:347:4922
- WILBUR, LYMAN**  
Honored by ENGINEERING NEWS-RECORD, CE:Mar 66:106
- WILCOX, MARION W.**  
Large Deflection of Heated Plates, with Lewis E. Clemmer, EM6:Dec 64:165:4176  
TR:131:181
- WILDT, ROGER H.**  
Fire Protection of Structural Steel Framing, CE:Sept, 66:70
- WILES, MEYER F.**  
Disc, CE:Nov 66:78 on the dumping of raw sewage into the nation's waterways, item in Do You Know That Column, CE:Aug 66:23
- WILHOITE, GENE M.**  
Tests Verify Design for TVA's 500-kv Towers, PO3:Oct 64:81:4062  
Disc: Edward A. Turner, PO1:May 65:125:4313; Max Zar and Joseph R. Arena, PO1:May 65:126:4313  
Clo: PO1:Jan 66:129:4598  
TR:131:90
- WILKE, OTTO**  
A Solution of the Irrigation Advance Problem, with Ernest T. Smerdon, IR3:Sep 65:23:4471  
Disc: Cheng-lung Chen, IR2:Jun 66:97:4829
- WILLARDSON, LYMAN S.**  
Sample Size Estimates in Permeability Studies, with Rex L. Hurst, IR1:Mar 65:1:4240  
Disc: T. Talsma, IR4:Dec 65:78:4550  
TR:131:777
- WILLEKE, GENE E.**  
Time in Urban Hydrology, HY1:Jan 66:13:4615  
Disc: Warren Viessman, Jr., HY5:Sept 66:242:4891; Jacques W. Delleur and Edwin B. Vician, HY5:Sept 66:243:4891; Ray K. Linsley, HY5:Sept 66:251:4891

**WILLIAMS, FRANKLIN A.**

Dsc, PP2:Dec 66:33:4992, of "Guide for the Civil Engineering Visitor on ECPD Accreditation Teams", Report of the Task Committee on Accreditation of the Committee on Engineering Education, PP1:May 66:1:4814

**WILLIAMS, GORDON R.**

Dsc, HY6:Nov 66:240:4959, of "Design Drouth Criteria", HY2:Mar 66:233:4731

See M.D. Morris, SA1:Feb 65:1:4220

**WILLIAMS, MERLIN C.**

Weather Modifications, University of Wyoming, HY1:Jan 65:93:4203

Dsc: Richard A. Schleusener, HY5:Sept 65: 298:4464; Paul A. Rechard, HY5:Sept 65:299: 4464; Asit K. Biswas, HY5:Sept 65:300:4464  
Clo: HY2:Mar 66:362:4708  
TR:131:391

**WILLIAMS, WAYNE**

See Charles Carroll, SM4:Jul 66:31:4865

**WILLIAMSON, ROBERT A.**

Computer Design of a Tower and Cable System, with H. F. Stevenson and P. W. Van der Pas, ST6:Dec 66:341:5017

Shear Effects in Design of Guyed Towers, with M. N. Margolin, ST5:Oct 66:213:4951

Dsc, with Martin N. Margolin, ST5:Oct 66:354: 4922, of "Analysis of High Guyed Towers", ST1:Feb 66:169:4671

Dsc, with M. N. Margolin, ST2:Apr 66:419: 4759, of "A Study of Guyed Towers", ST4: Aug 65:57:4438

**WILSON, EDGAR BURKE**

Sidestream Intakes for Hydro Power in Scotland, with John Alexander Stevenson, PO1: Jan 66:1:4601

**WILSON, EDWARD L.**

Dsc, ST4:Aug 66:106:4871, of "Structural Analysis by Networks, Matrices, and Computers", ST1:Feb 66:199:4674

**WILSON, JOHN VICTOR**

Dsc, CE:Oct 66:87, on Raymond Archibald's position on the competence of engineers, CE: July 66:70

**WILSON, KENNETH C.**

Bed-Load Transport at High Shear Stress, HY6:Nov 66:49:4968

**WILSON, PAUL C., JR.**

Dsc, WW3:Aug 66:98:4872, of "Water Resources Problems Generated by Obnoxious Plants", WW4:Nov 65:47:4537

**WINEFORDNER, JOHN S.**

See Leland F. Grant, CO3:Sept 66:1:4894

**WINICK, ALEXANDER B.**

All-Weather Landing Systems, AT2:Oct 64:85: 4077

TR:131:759

**WINKLEHAUS, CHARLES**

Dsc, with Francis A. DiGiano and Walter J. Weber, Jr., SA6:Dec 66:129:4986, of "Precipitation of Iron In Aerated Ground Waters", SA1:Feb 66:199:4687

**WINTER, GEORGE**

See Alexander Chajes, ST4:Aug 65:103:4442  
See Albert L. Johnson, ST5:Oct 66:97:4934

**WIRTANEN, THEODORE E.**

Geodetic Precision in One Perspective, SU1: Jan 66:11:4600

**WISELY, WILLIAM H.**

ASCE Supports Engineering Registration, CE:Apr 66:25

Continuing Education, CE:Feb 65:31

TR:131:92

Communication in Engineering Education, CE:Aug 66:31

Dsc & reply, CE:Aug 66:74 to Arnold M. Cogan's dsc of ASCE's position on New Jersey Planners law, Aug 66:74  
The Economies of ASCE Technical Publications, CE:Dec 65:39

TR:131:720

Interprofessional Relations, CE:Aug 65:33

Dsc: Victor W. Buhr, CE:Nov 65:98; Sergei N. Grimm, CE:Nov 65:99; John A. Logan, CE: Nov 65:99

TR:131:448

Membership Promotion in ASCE, CE:Jun 65: 35

Dsc: Fred Camp, CE:Aug 65:75

TR:131:422

Product Endorsement by Engineers, CE:Apr 65:41

TR:131:305

Public Relations Activity in ASCE, CE: Oct 66:35

Sylvanus Thayer, P. E. No. 1, CE:Feb 66:33

Dsc: John R. Jannarone, CE:Apr 66:64;

J. B. Lampert, Hanford Thayer and R. L.

Jewett, CE:May 66:74

Unethical Sabotage of Public Projects, CE: Oct 65:49

TR:131:708

A World Organization of Engineers, CE: Jun 66:37

Dsc: Herbert D. Vogel, CE:July 66:69;

David K. Blythe, CE:Sept 66:81

Your Place in Your Local Section, CE: Dec 66:27

**WISER, EDWARD H.**

Irrigation Planning Using Climatological Data, IR4:Dec 65:1:4551

Dsc: Albert E. Gibbs, IR3:Sept 66:73:4892

**WOLCOTT, W. WESTON**

See John J. Mattimoe, PO3:Oct 64:29:4067

**WOOD, DON J.**

- An Explicit Friction-Factor Relationship, CE:Dec 66:60  
 Unsteady Flow of Solid-Liquid Suspension, with T. Y. Kao, EM6:Dec 66:117:5039  
 Wave-Plan Analysis of Unsteady Flow in Closed Conduits, with Robert G. Dorsch, HY2:Mar 66:83:4716  
 Dsc: Victor L. Streeter and E. Benjamin Wylie, HY5:Sept 66:274:4891

**WOOD, RANDAL H.**

- Dsc, EM6:Dec 66:248:4994, of "Equilibrium Method for Limit Calculation of Frames", EM1:Feb 66:169:4697

**WOOD, WILLIAM E.**

- See M. D. Morris, SA1:Feb 65:1:4220

**WOODWARD, RICHARD J.**

- See H. Bolton Seed, SM4:Jul 64:107:3983  
 See H. Bolton Seed, SM6:Nov 64:75:4140

**WOOLHISER, DAVID A.**

- Channel Gradients Above Gully-Control Structures, with Arno T. Lenz, HY3:May 65:165:4333  
 Dsc: Sutesaburo Sugio, HY1:Jan 66:108:4596  
 Clo: HY4:Jul 66:145:4859  
 TR:131:619

**WOOLTORTON, F. L. D.**

- Dsc, SM1:Jan 66:177:4594, of "Some Swelling Characteristics of Compacted Clays", SM3:May 65:1:4316

**WORCESTER, ROBERT E.**

- Airline Baggage Handling Systems, AT2:Oct 63:21:3676  
 Dsc: William H. Shoemaker, AT1:Apr 65:63:4279  
 Clo: AT2:Nov 66:101:4955

**WOZNAK, ROBERT S.**

- Dsc, ST3:Jun 66:274:4831, of "Buckling Strength of Circular Tubes", ST5:Oct 65:325:4520

**WRIGHT, D. E.**

- Dsc, HY4:Jul 66:183:4859, of "Factors Influencing Flow in Large Conduits: Report of the Task Force on Flow in Large Conduits of the Committee on Hydraulic Structures", HY6:Nov 65:123:4534

**WRIGHT, DOUGLAS T.**

- Membrane Forces and Buckling in Reticulated Shells, ST1:Feb 65:173:4227  
 Dsc: Kenneth P. Buchert, ST3:Jun 65:298:4346; Shu-t'ien Li, ST4:Aug 65:253:4432; Cedric Marsh, ST4:Aug 65:254:4432; Niels C. Lind, ST4:Aug 65:255:4432; John O. McCutcheon and J. F. Dickie, ST5:Oct 65:369:4498; Anatol A. Eremin, ST5:Oct 65:372:4498; Gordon Moses, ST5:Oct 372:4498; Richard R. Bradshaw, ST5:Oct 65:374:4498; F. del Pozo, ST5:Oct 65:374:4498; Aurel A.

- Beles and Mircea Soare, ST5:Oct 65:376:4498; Donald L. Dean and Celina P. Ugarte, ST5:Oct 65:378:4498; Ferdinand Lederer, ST5:Oct 65:385:4498; Michele Pagano and Carlo Catanzaro, ST5:Oct 65:391:4498  
 Clo: ST2:Apr 66:401:4759  
 TR:131:279

**WRIGHT, PAUL M.**

- Worlds of Two Giants, PP2:Dec 66:1:4997

**WRIGHT, RICHARD N.**

- Loading Rate Effects in Structural Steel Design, with William J. Hall, ST5:Oct 64:11:4084  
 Dsc: A. A. Eremin, ST3:Jun 65:278:4346  
 Clo: ST6:Dec 65:289:4547  
 TR:131:195

**WRIGHT, WILLIAM B.**

- Consulting Practice in Surveying, CE:Apr 66:61

**WU, T. H.**

- Analysis of Consolidation by Rate Process Theory, with D. Resendiz and R. J. Neukirchner, SM6:Nov 66:229:4991

**WU, TIEN HSING**

- See Richard W. Christensen, SM6:Nov 64:125:4147

**WUKASCH, RONALD F.**

- Trickling Filter Stone Gradation and Placement, with Don E. Bloodgood, SA2:Apr 66:59:4761

**WULLSCHLEGER, RICHARD E.**

- See Arlyn E. Albrecht, SA1:Feb 66:183:4686

**WUNDERLICH, WALTER O.**

- See Rex A. Elder, SA6:Dec 66:120:4996

**WUNDERLICH, WILLIAM E.**

- See Otis M. Jernigan, WW4:Nov 65:31:4536

**WYLIE, E. BENJAMIN**

- See Victor L. Streeter, HY5:Sept 66:274:4891

**YALIN, M. SELIM**

- Geometrical Properties of Sand-Waves, HY5:Sept 64:105:4055

- Dsc: David I. H. Barr, HY3:May 65:343:4304; Alan V. Jopling, HY3:May 65:348:4304; Fuat Senturk, HY3:May 65:360:4304; C. M. White and B. MacMahon, HY3:May 65:364:4304; Carl F. Nordin, Jr., and James H. Algert, HY3:May 65:367:4304  
 Clo: HY5:Sep 65:184:4464  
 TR:131:76

**YAMAHARA, SHIGEKI T.**

- Dsc, with Richard L. Citterley, ST5:Oct 66:358:4922, of "Numerical Analysis of Transitional Shell Roofs", ST1:Feb 66:223:4679

**YANG, NAI C.**

Dsc, CO1:Jan 66:93:4597, of "Arecibo Radar-Radio Telescope--Design and Construction", CO1:May 65:69:4323

**YANG, TSUNG-CHANG**

Traffic Assignment by the Maximum Principle, with Robert R. Snell, HW2:Oct 66:1:4917

**YAO, KUAN M.**

Dsc, SA5:Oct 66:125:4920, of "Effect of Backwash on Filter Effluent Quality", SA1:Feb 66:215:4692

**YAO, LESLIE Y. C.**

See Bengt B. Broms, SM4:Jul 64:1:3958

**YEN, BEN-CHIE**

Dsc, EM2:Apr 66:296:4747, of "Added Mass of a Sphere in a Bounded Viscous Fluid", EM4:Aug 65:147:4448

Dsc, HY2:Mar 66:420:4708, of "Submerged Hydraulic Jump", HY4:Jul 65:71:4403

**YETTRAM, ALAN L.**

Grid-Framework Method for Plates in Flexure, with Husain M. Husain, EM3:Jun 65:53:4361

Dsc: Roy Levy, EM5:Oct 65:233:4495; James L. Tocher, EM6:Dec 65:190:4549; J. D. Renton, EM1:Feb 66:207:4646; C. S. Smith, EM1:Feb 66:208:4646

Clo: EM5:Oct 66:131:4921  
TR:131:778

Plane-Framework Methods for Plates in Extension, with M. Husain, EM1:Feb 66:157:4695

Dsc: Alexander P. Hrennikoff, EM3:Jun 66:115:4828; William C. Schnobrich and Bijan Mohraz, EM5:Oct 66:144:4921

**YEVDJEVICH, V. M.**

Dsc, HY2:Mar 66:410:4708, of "Spurious Correlation in Hydraulics and Hydrology", HY4:Jul 65:35:4393

**YITZHAK, MICHAEL**

See Max Reiss, ST5:Oct 65:233:4516

**YOSHIMI, YOSHIKI**

Piles in Cohesionless Soil Subject to Oblique Pull, SM6:Nov 64:1:4124

Dsc: Bengt B. Broms, SM4:Jul 65:199:4394  
Clo: SM1:Jan 66:168:4594  
TR:131:229

**YOTSUKURA, NOBUHIRO**

Numerical Solution to a Dispersion Equation, with Myron B. Fiering, HY3:Sep 64:83:4046

Dsc: Hugo B. Fischer, HY2:Mar 65:402:4249  
Clo: HY3:May 66:67:4805  
TR:131:444

**YOUNG, BEN W.**

See T. Y. Lin, CE:July 65:56

**YOUNG, CORTLAND E., JR.**

See Ralph A. Klawitter, IR3:Sep 65:1:4456

**YOUNG, DONALD F.**

See Kenneth G. McConnell, EM4:Aug 65:147:4448

**YOUNG, J. WILLIAM, JR.**

Synthesis of a Space Truss Based on Dynamic Criteria, with Henry N. Christiansen, ST6:Dec 66:425:5021

**YOUNG, JAMES C.**

Second Order Equation for BOD, with John W. Clark, SA1:Feb 65:43:4232

Dsc: K. Keshavan, SA3:Jun 65:136:4353; Walter J. Weber, Jr., and Roger H. Carlson, SA3:Jun 65:140:4353; Gerald M. Leigh, SA5:Oct 65:73:4492; Wilber A. Blain, SA5:Oct 65:74:4492; Edward D. Schroeder, J.D. Norman and Arthur W. Busch, SA5:Oct 65:76:4492  
Clo: SA2:Apr 66:172:4754  
TR:131:267

**YOUNGER, ROBERT**

Big Files for a Deep Lake Crossing, CE:Nov 66:58

**YOUNGS, E. G.**

Dsc, IR4:Dec 66:77:4995, of "Steady-State Theories for Drainage", IR1:Mar 66:19:4707

**YU, JAMES N. G.**

See Clifford D. Smith, HY2:Mar 66:1:4703

**YU, YUN-SHENG**

See David L. Appel, HY6:Nov 66:179:4988

See Tio-Chun Chen, HY2:Mar 65:51:4251

**YURA, JOSEPH A.**

Strength of Single-Story Steel Frames, with Theodore V. Galambos, ST5:Oct 65:81:4507

Dsc: Anatol A. Eremin, ST3:Jun 66:261:4831; Adel H. Salem, ST3:Jun 66:261:4831

**ZACCHEO, PHILIP F.**

See John Lowe, III, SM5:Sept 64:69:4058

**ZANDI, IRAJ**

Turbulent Non-Newtonian Velocity Profiles in Pipes, with Ronald H. Rust, HY6:Nov 65:37:4532

Dsc: Chaim Elata, HY3:May 66:124:4805

**ZANONI, HERMAN P.**

Collective Bargaining for Municipal Engineers, CE:Sept 65:50  
TR:131:577

**ZAR, MAX**

See Charles F. Beck, ST6:Dec 66:361:5018

**ZASLAVSKY, ARON**

Dsc, EM6:Dec 66:242:4994, of "Equilibrium Method for Limit Calculation of Frames", EM1:Feb 66:169:4697

**ZELLER, EUGENE E.**

Dsc, WW4:Nov 66:47:4957, of "Practical Tonnage Capacity of Canalized Waterways", WW1:Feb 66:33:4644

**ZIENKIEWICZ, OLGIERD C.**

Analogue Procedure for Determination of Virtual Mass, with B. Nath, HY5:Sep 64:69:4042

Dsc: Frederic T. Mavis, HY2:Mar 65:400:4249; Richard G. Warnock, HY3:May 65:342:4304

Clo: HY1:Jan 66:81:4596

TR:131:193

Solution of Anisotropic Seepage by Finite Elements, with Paul Mayer and Yau Kai Cheung, EM1:Feb 66:111:4676

Dsc: K. R. Rushton, EM5:Oct 66:141:4921

Dsc, EM4:Aug 66:78:4874, of "Elastic Torsional Analysis of Irregular Shapes", EM6:Dec 65:11:4562

**ZUAZO, J. I. FERNANDEZ**

Dsc, AT2:Nov 66:111:4955, of "Modulus of Deformation of Pavement Bases", AT1:Jan 66:95:4613

**ZUDHOF, JAN**

Dsc, CE:Jul 66:69, on "Air barriers stop salt-water intrusion" (Do You Know That) CE:May 66:33

**ZWAMBORN, JOHAN ALBERT**

Simple Apparatus for Producing Model Tides, HY2:Mar 65:39:4250

Dsc: Jan M. Jordaan, Jr., HY6:Nov 65:170:

4527

Clo: HY3:May 66:81:4805

TR:131:283

**ZWEIG, ALFRED**

Eccentrically Loaded Trapezoidal or Round Footings, ST1:Feb 66:161:4670

Dsc: Abdel-Aziz I. Kashef, ST5:Oct 66:350:

4922; Pranshanker C. Dave, ST5:Oct 66:352:

4922



the 1990s, the number of people in the world who are undernourished has increased from 600 million to 800 million (FAO 1996).

There are a number of reasons for this increase. First, the world population has increased from 5 billion in 1987 to 6 billion in 1997, with a further 2 billion projected by the year 2025 (FAO 1996). Second, the world population is becoming increasingly urbanized, with 55% of the world population living in urban areas in 1997, compared with 40% in 1987 (FAO 1996). Third, the world population is becoming increasingly aged, with the proportion of the world population aged 65 and over increasing from 7% in 1987 to 10% in 1997 (FAO 1996).

Fourth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Fifth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Sixth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Seventh, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996).

Eighth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Ninth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Tenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996).

Eleventh, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Twelfth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Thirteenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996).

Fourteenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Fifteenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Sixteenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996).

Seventeenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996). Eighteenth, the world population is becoming increasingly mobile, with the number of people moving from rural to urban areas increasing from 1.5 million in 1987 to 2.5 million in 1997 (FAO 1996).

